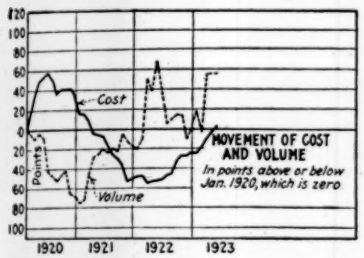
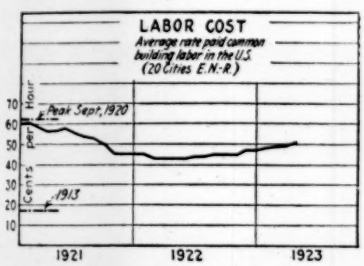
CONSTRUCTION NEWS

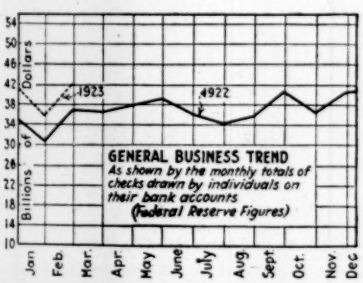
The Construction Barometer

Probably Near Cost Peak — Private Contracts Heavy — Labor Cost Serious

SINCE March, 1922, construction cost has risen steadily and now, at 34 per cent above the minimum since the peak in 1920, shows the first signs of flattening. Materials men appear to realize the danger of a buyer's strike, and will prevent further increases if possible. The most serious factor is the increasing cost of labor. Although demand was slightly higher in April than in March, contracts for roads, bridges and public work in general fell off. The increase is chiefly in industrial building. The individual trends in several classes of construction will be shown here next week.







VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ending	Public Work	Private Work	Total Contracts
Apr. 19	$14,351,000	$24,099,000	$38,450,000
Apr. 26	22,049,000	41,860,000	63,909,000
May 3	30,970,000	18,629,000	49,599,000
Total	$67,370,000	$84,588,000	$151,958,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

Week Ending	No.	Public Work	No.	Private Work
Apr. 19	9	$2,651,000	38	$12,898,000
Apr. 26	19	6,646,000	41	22,050,000
May 3	19	6,626,000	41	10,566,000
Total	47	$15,923,000	120	$45,514,000

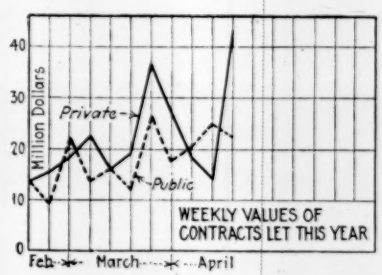
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

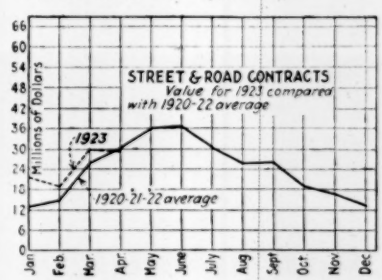
Week Ending	Private	Public All	Public Streets and Roads	Public Water-Works and Sewers	Public All Buildings
Apr. 19	32	244	103	44	38
Apr. 26	54	233	84	36	63
May 3	29	230	75	39	43

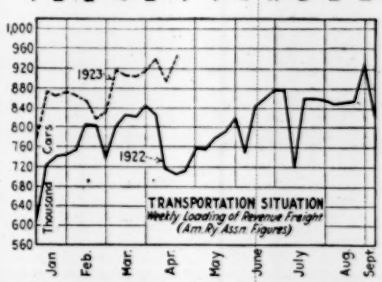
BASE PRICES, EXCEPT STEEL, SHOW GENERAL RISE

	Changed on May 10	From	On
Structurals, Pittsburgh, 100 lb.	$2.50 @$2.70	$2.50 @$2.75	May 3
Cement, Chicago net bbl.	2.20	2.05	Feb. 1
Pine, New York, per M. ft.	60.00	58.00	Apr. 5
Fir, San Francisco, per M. ft.	41.00	39.00	Apr. 5
Common labor, per hr.	0.51	0.50	Apr. 5

PRODUCTION—April pig-iron output heaviest on record. Steel ingot production rate higher than March, 1920. Lumber cut 7½ per cent above normal; 7½ per cent below normal year ago. Cement mills able to meet heavy demand. Fewer burned brick on hand than month ago; increase in orders on books.







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
May 14	Woodville, Wis.	Apr. 26
May 14	Liberty, N. Y.	May 3
May 14	Canton, Ill.	May 3
May 14	Detroit, Mich.	May 10
May 14	West Allis, Wis.	May 10
May 15	Conrad, Mont.	May 10
May 15	Gaylord, Kan.	May 3
May 15	Harrisburg, Pa.	Apr. 19
May 15	Monticello, Ind.	Apr. 26
May 15	Seaforth, Ont.	May 10
May 15	Tonkawa, Okla.	May 10
May 16	San Francisco, Calif.	Apr. 19
May 16	Baltimore, Md.	May 10
May 18	Sidney, O.	Apr. 26
May 18	Traer, Ia.	May 3
May 18	Mt. Greenwood, Ill.	May 3
May 22	Portland, Me. Adv. Apr. 26 to May 10.	Apr. 26
May 23	Spring Green, Wis.	May 10
May 24	Dubuque, Ia.	May 10
May 25	Wauwatosa, Wis.	May 10
May 25	Cleveland, O.	May 3
May 25	Cleveland, O. Adv. May 10.	May 10
May 28	Bismarck, N. D.	May 10
May 29	Horton, Kan.	May 10
May 31	Easton, Md. Adv. May 10.	May 10
June 4	Talladega, Ala. Adv. May 10.	May 10

SEWERS

May 14	Mamaroneck, N. Y. Adv. May 3 and 10.	May 10
May 14	Mishawaka, Ind.	May 10
May 14	West Allis, Wis.	May 10
May 14	Fond du Lac, Wis.	May 10
May 15	Williamsport, Pa.	May 10
May 15	Hartford, Conn.	May 3
May 15	St. Petersburg, Fla.	Apr. 19
May 15	South Bend, Ind.	May 3
May 15	Columbus, O.	May 3
May 16	Baltimore, Md.	May 10
May 16	Long Island City, N. Y.	May 10
May 17	Atlantic City, N. J.	Apr. 26
May 21	Pontiac, Mich. Adv. May 10.	May 10
May 21	Akron, O.	May 10
May 21	Creston, Ia.	May 10
May 22	Marion, Wis.	Apr. 26
May 23	Tonawanda, N. Y. Adv. May 10.	May 10
May 25	Detroit, Mich.	May 10
May 29	Wash., D. C. Adv. May 10.	May 10
May 31	Easton, Md. Adv. May 10.	May 10

WASTE DISPOSAL

May 16	Cleveland, O.	May 10

Bids Close		See Eng. News-Record
BRIDGES		
May 12	Woodstock, Ont.	May 10
May 14	Kenansville, N. C.	May 3
May 15	Newcastle, Pa.	Apr. 26
May 15	Monticello, Ind.	May 3
May 15	Florida	May 3
May 15	Missouri	May 10
May 18	Fremont, O.	May 10
May 21	Marine City Mich.	Apr. 26
May 22	Walhalla, S. C.	May 3
May 24	Chicago, Ill.	May 3
May 25	Ladysmith, Wis.	May 10
June 5	Grand Haven, Mich. Adv. May 10.	May 10
June 5	St. Louis, Mo.	May 10
July 31	La Center, Wash.	May 3
Nov. 30	Sydney, Australia	Apr. 19
EXCAVATION, DRAINAGE, IRRIGATION		
May 15	Eudora, Ark.	May 3
May 15	Pontiac, Mich.	May 3
May 21	Brooklyn, N. Y.	May 10
May 23	Crookston, Minn.	May 10
June 5	Rolling Fork, Miss. Adv. May 10.	May 10
June 15	Albert Lea, Minn.	Apr. 12
STREETS AND ROADS		
May 14	East Orange, N. J.	May 3
May 14	Finley, N. D.	May 3
May 14	South Bend, Ind.	May 3
May 14	North Tonawanda, N. Y.	May 3
May 14	Latrobe, Pa.	May 10
May 14	Rockwall, Tex.	May 10
May 14	Birchcliff, Ont.	May 10
May 14	Michigan	May 10
May 14	Marshall, Mich.	May 10
May 14	Cassopolis, Mich.	May 10
May 14	Cobourg, Ont.	May 10
May 14	Cornwall, Ont.	May 10
May 14	East Orange, N. J.	May 10
May 14	Milwaukee, Wis.	May 10
May 15	Starke, Fla.	Apr. 19
May 15	Onawa, Ia.	Apr. 19
May 15	St. Petersburg, Fla.	Apr. 19
May 15	St. Louis, Mo.	Apr. 26
May 15	Maryland Adv. May 3 and 10.	May 3
May 15	Georgetown, Tex.	May 3
May 15	South Bend, Ind.	May 3
May 15	Burbank, Calif.	May 3
May 15	Gadsden, Ala.	May 10
May 15	Alabama City, Ala.	May 10
May 15	Columbus, O.	May 10
May 15	Missouri	May 10
May 15	Wakefield, R. I. Adv. May 10.	May 10
May 15	New Hampshire	May 10
May 15	Bellwood, Pa.	May 10
May 16	Red Lake Falls, Minn.	May 3
May 16	Ebensburg, Pa.	May 3
May 16	New York Adv. May 3 and 10.	May 3
May 16	Delaware	May 3
May 16	San Francisco, Calif.	Apr. 26
May 16	Lakota, N. D.	May 3
May 16	Baltimore, Md.	May 10
May 16	Cleveland, O.	May 10
May 16	Elizabethtown, Tenn.	May 10
May 16	Long Island City, N. Y.	May 10
May 16	Brooklyn, N. Y.	May 10
May 17	Denver, Colo.	May 10
May 17	Poughkeepsie, N. Y. Adv. May 3 and 10.	May 3
May 17	Minot, N. D.	May 3
May 17	Newton, N. J. Adv. May 3 and 10.	May 3
May 17	Columbus, O.	May 10
May 17	South Bend, Ind.	May 10
May 18	South Orange, N. J.	May 10
May 18	Roselle Park (Elizabeth P. O.), N. J. Adv. May 10.	May 10
May 18	Trenton, N. J.	May 10
May 19	Denver, Colo.	May 10
May 21	St. Paul, Minn. Adv. May 3 and 10.	May 3
May 21	Norfolk, Neb.	May 10
May 22	Maryland Adv. May 10.	May 10
May 22	Florence, Ala.	May 10
May 22	Kendallville, Ind. Adv. May 10.	May 10
May 22	South Bend, Ind.	May 10
May 22	Plattville, Wis.	May 10
May 22	Denver, Colo.	May 10
May 24	Cedar Grove, La.	May 10
May 28	Akron, O.	May 3
May 28	Kansas City, Kan.	May 10
May 29	Louisiana	May 10
May 29	Kentucky	May 10
May 29	St. Louis, Mo.	May 3
INDUSTRIAL WORK		
May 12	Hartford, Conn.	May 3
May 14	Kiel, Wis.	May 10
May 15	Bethlehem, Pa.	Apr. 19
May 15	Reading, Pa.	Apr. 26
May 18	Cleveland, O.	May 10
May 25	Watertown, N. Y. Adv. May 10.	May 10

Bids Close		See Eng. News-Record
BUILDINGS		
May 12	Waterbury, Conn.	May 3
May 12	Huntington, N. Y.	May 10
May 14	Syracuse, N. Y.	Apr. 26
May 14	Milwaukee, Wis.	May 10
May 14	London, Ont.	May 10
May 15	Hightstown, N. J.	Apr. 26
May 15	Toronto, Ont.	May 3
May 15	Green Bay, Wis.	May 10
May 15	Rockledge, Fla.	May 10
May 15	St. Petersburg, Fla.	May 10
May 15	Hightstown, N. J. Adv. May 10.	May 10
May 15	Brooklyn, N. Y.	May 10
May 17	Pulaski, Wis.	Apr. 26
May 17	Columbus, O.	May 3
May 17	Pittsburgh, Pa.	May 10
May 18	Minneapolis, Minn.	May 10
May 18	Toronto, Ont.	May 10
May 19	Belfast, Me.	May 10
May 19	Ferndale, Pa.	May 3
May 20	Niagara Falls, N. Y.	May 10
May 22	Old Forge, N. Y.	Apr 26
May 25	Verona, Wis.	May 10
May 26	Columbus, O.	Apr 26
May 26	Lakewood, N. Y.	May 10
May 28	Hamburg, O.	May 10
May 28	Cleveland, O.	May 3
May 28	Byesville, O.	May 3
May 29	Stockton, Calif.	May 3
June 1	Morgantown, W. Va.	Apr. 12
June 4	Kansas City, Mo.	May 10
June 4	El Centro, Calif.	May 10
FEDERAL GOVERNMENT WORK		
May 14	Dredging — Wilmington, Del. Adv. Apr. 19 to May 10.	Apr. 19
May 14	Repairs—Perryville, Md.	Apr. 26
May 15	Roads—Oregon	May 10
May 15	Roads—Washington	May 10
May 15	Earthwork—New Orleans, La.	May 10
May 17	Road—New Mexico	May 3
May 18	Dredging — Los Angeles, Calif.	May 3
May 21	Post Office — Houghton, Mich.	Apr. 26
May 21	Scows—Wilmington, Del. Adv. Apr. 26 to May 10.	Apr. 26
May 21	Levee—St. Louis, Mo.	May 3
May 22	Steel Hull — Vicksburg, Miss. Adv. Apr. 26 to May 10.	Apr. 26
May 22	Post Office—Phoenixville, Pa.	May 3
May 23	Roads—San Diego, Calif.	Apr. 26
May 23	Storehouse—Pearl Harbor, H. T.	Apr. 26
May 23	Remodeling—Portsmouth, N. H.	May 10
May 24	Dredging, etc. — Chicago, Ill. Adv. Apr. 26 to May 10.	Apr. 26
May 25	Hull, etc.—Louisville, Ky. Adv. Apr. 26 to May 10.	Apr. 26
May 25	Roads and Walks—Oteen, N. C.	May 10
May 28	Post Office—Saco, Me.	May 10
May 31	Dredging—Milwaukee, Wis. Adv. May 3 and 10.	May 3
May 31	Hospital—Rutland, Mass. Adv. May 3 and 10.	May 3
May 31	Dredging — Providence, R. I. Adv. May 3 and 10.	May 3
June 1	Jetty—New Orleans, La. Adv. May 3 and 10.	May 10
June 1	Dredging — San Francisco, Calif.	May 10
June 4	Post Office—Leesburg, Va. Adv. May 10.	May 10
June 5	Emergency Gates—Montana	May 10
June 5	Dredging—New Orleans, La. Adv. May 10.	May 10
June 5	Dredging — Wilmington, Del.	May 10
June 6	Gates—Denver, Colo. Adv. May 10.	May 10
June 8	Dredging—Phila., Pa. Adv. May 3 and 10.	May 3
June 11	Dike—New York, N. Y. Adv. May 10.	May 10
June 13	Refrigerating Machinery—Pearl Harbor, H. T.	Apr. 26
MISCELLANEOUS		
May 14	Chimney—Norfolk, Va.	Apr. 26
May 14	Road Oil—St. Paul, Minn.	May 3
May 15	Cement, Paving Block, etc. —Wash., D. C.	May 3
May 16	Retaining Walls — Freehold, N. J.	May 3
May 16	Sheep Barn — Des Moines, Ia.	May 10
May 16	Retaining Walls — Freehold, N. J. Adv. May 3 and 10.	May 10
May 17	Bulkhead, etc. — Newark, N. J.	May 3
May 18	Shaft—New York	Apr. 26
May 18	Poles, etc.—Cleveland, O.	May 10
May 22	Subway — New York, N. Y.	May 3
May 22	Wharf—Blind River, Ont.	May 10
May 23	Steel Penstock and Accessories —San Francisco, Calif.	Apr. 19
May 25	Power Development—Watertown, N. Y.	May 10
June 1	Pier—Charleston, S. C. Adv. Apr. 26 to May 10.	Apr. 26

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Corning—See "Sewers."

N. Y., Marcellus—Plans addition to water system. $30,000-$35,000. Address J. M. Moir, chn. Advisory Com.

Pa., Erie — General Electric Co. plans reservoir. $15,000. Engineer not announced.

Va., Danville—Making plans rebuilding old filtration plant. $100,000. Hazen & Whipple, 25 West 43rd St., New York City, engrs.

Ala., Albany — Alabama Water Co., Amer. Trust Bldg., Birmingham, plans to issue $120,000 bonds for 3,000 ft. 8 in. rein.-con. main under Louisville and Nashville Ry. shops, etc.

Ala., Anniston — Alabama Water Co., Amer. Trust Bldg., Birmingham, will issue $20,000 bonds to extend mains and laterals, 2,000 ft. 10 in. rein.-con. pipe, etc., here.

Ala., Attala—Alabama Water Co., Amer. Trust Bldg., Birmingham, will issue $15,000 bonds to extend rein.-con. mains, here.

Ala., Girard—Alabama Water Co., Amer. Trust Bldg., Birmingham, will sell $20,000 bonds for extending mains and general improvements, here.

Ala., Greensboro—Alabama Water Co., Amer Trust Bldg., Birmingham, will issue $15,000 bonds extending mains, 1,000 ft. 8 in. rein.-con. pipe, etc., here.

Ala., Jasper—Alabama Water Co., Amer. Trust Bldg., Birmingham, will issue $15,000 bonds to extend mains, 1,000 ft. rein.-con. pipe, etc., here.

Ala., Oneonta — Alabama Water Co., Amer. Trust Bldg., Birmingham, will sell $15,000 bonds to extend mains, here.

Tenn., Madisonville—Takes bids about May 30, water works system, incl. electrical power driven machinery, storage tank, etc. $35,000. Ambler Eng. Co., Old Dominion Trust Bldg., Richmond, Va., engrs.

O., Sandusky—Erie Co. making preliminary surveys for water lines, pumping station and sewage disposal plant for Castalia Sect. near here. To exceed $25,000. R. E. Garvin, Davis & Farley Bldg., Cleveland, engrs.

Mich., Birmingham—Having plans prepared well 18 in. diam. or larger, and 400 gal. motor driven pump, centrifugal or other type. $15,000. H. E. Clark, city clk.

Ill., Joliet—Soon receives bids, water mains and sewers. A. S. Calkins, city engr.

Wis., Wauwatosa—Making plans 500,000 gal. rein.-con. reservoir, incl. pipe and fittings. $25,000. J. E. Lowther, City Hall, engr.

Ia., Marshalltown—Election soon to vote on $350,000 bonds for waterworks. O. J. Herm, city engr.

N. D., Fargo—Union Light, Heat & Power Co., 612 N. P. Ave., plans double main and turbine engine unit, condenser type. $300,000.

Mo., Platte City—May 15, to vote on $47,000 bonds waterworks and sewer improvements. A. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

Calif., Alhambra—Election in June to vote on $250,000 bonds for water system and $12,000 for storm water protection.

Calif., San Bruno—City to vote on $200,000 bonds to improve and extend waterworks system. Noted Mar. 1.

Calif., Yuba City—Will vote on $32,000 bonds for extending water system. E. Von Geldern, city engr.

Que., Levis—Plans filtration plant and reservoir. $160,000. E. Hamel, city engr.

Ont., Birchcliff—Pub. Utilities Comm. of Scarboro Twp. plans to lay 16,000 ft. 6-12 in. c. i. mains in Regent Park Subdivision. $58,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Waterworks (Continued)

Ont., Eastview—Plans 10,000 ft. 6 and 8 in. c.i. mains, etc. $25,000. J. Wolfe, Cummings Bridge, engr.

Ont., Hamilton — Plans new filter basin and chlorination plant. $50,000. W. L. McFaul, City Hall, engr.

Ont., Islington—Etobicoke Twp. having plans prepared waterworks system in Eastwood Park, 2 mi. 6-12 in. c. i. pipe. $46,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Toronto—Plans 10,000 ft. 6 in. c. i. mains in Huron and Ardagh Sts., Chatham, Heddington, Oakdale, Phin and Oakcrest Aves. $25,000. R. C. Harris, city engr.

BIDS DESIRED

Md., Baltimore—May 16, by Bd. Awards, furnishing and delivering sluice gates for additions to Montebello filters, Contr. 67. $50,000. W. A. Megraw, City Hall, engr.

Md., Easton — May 31, by Mayor, at Council Chambers, extensions to waterworks system. E. G. Kastenhuber, Jr., town engr.; adv. this issue.

N. C., Davidson—City opens bids between May 15 and 30, installing 60,000 ft. water pipes and 30,000 ft. sewer pipes. Mees & Mees, Kinney Bldg., Charlotte, engrs. Noted Dec. 14.

Ala., Talladega—June 4, by City Comrs., constructing water supply system. D. M. Remson, city clk. P. H. Norcross, 1404 Candler Bldg., Atlanta, Ga., consult. engrs.; adv. this issue.

O., Cleveland—May 25, by Commissioner Purchases & Supplies, City Hall, c.i. pipe and special castings for Baldwin-Fairmount Project. A. V. Ruggles, comr. water; adv. this issue.

O., Columbus—See "Streets and Roads."

Mich., Detroit—May 14, by Dept. Pub. Wks., Oakwood pumping station, Pleasant Ave., 60 x 120 ft. rein.-con. pump pit and suction well, 40 ft. deep, brick superstructure incl. steel roof, trusses, etc., 53 x 131 ft., 39 ft. high. J. W. Reid, city engr.

Wis., Spring Green — May 23, by A. Schlasser, clk., laying 2,500 ft. 4-12 in. mains, etc. $15,000. Private plans.

Wis., Wauwatosa—May 25, by A. V. Brigham, secy. Bd. Pub. Wks., rein.-con. reservoir, 65 ft. in diameter, 500,000 gal. capacity. $30,000. J. E. Lowther, City Hall, engr.

Wis., West Allis—May 14, by Bd. Pub. Wks., 18,000 lin.ft. 6 in. c.i. mains. $50,000-$60,000. W. Darby, city engr.

Ia., Dubuque—May 24, waterworks incl. pumping station, centrifugal pump, 2 air compressors, well and 5 air lift well pumps. $200,000. Mead & Seastone, Journal Bldg., Madison, Wis., engrs. Noted Mar. 29.

Kan., Horton — May 29, by Black & Veatch, engrs., 701 Mutual Bldg., Kansas City, Mo., waterworks system, clear well and dam. $150,000.

N. D., Bismarck — May 28, waterworks system, incl. distribution system, pumping station, equipment rein.-con. reservoirs, filtration and softening plants. $704,000. T. R. Atkinson, city engr. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, Minn., consult. engr. Noted May 3.

Mont., Conrad—May 15, by F. R. Bailey, city clk., distribution system and supply pipe line from reservoir to city, 29,615 ft. 6-10 in. c.i. pipe, 15,165 ft. 12 in. Matheson Joint pipe, etc. C. W. Swearingen, city engr.

Okla., Tonkawa—May 15, by E. E. Davis, city clk., waterworks improvements, incl. 500 gal. per minute tri-plex plunger pump, 289 tons 8 in., 120 tons 10 in. and 5 tons 6 in. c.i. pipe, etc. Ruckel Eng. Co., Hutchinson, Kan, engrs.

Ont., Seaforth—May 15, by J. Wilson, city clk., 3¼ mi. 6 and 8 in. c.i. mains. $60,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS RECEIVED

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas and Electricity, Municipal Bldg., New York, mains in Glenwood Rd., Delamere Pl., etc., here, from Carder Contg. Co., 582 78th St., $43,000. Noted Apr. 5.

N. J., Trenton—For 180 tons 10 in. pipe for Water Dept., from U. S. Cast Iron Pipe & Fdry. Co., Morris Bldg., Phila., $62.25 per ft.

CONTRACTS AWARDED

Conn., Hartford—Colts Patent Fire Arms Co., Huyshope Ave., 40 x 60 ft. reservoir, 7 ft. deep, 100,000 gal. capacity, concrete, to R. G. Bent Co., 183 Ann St. Engrs. est. $60,000. Noted May 3.

PUMPING STATION—POUGHKEEPSIE, N. Y.

Bids were opened by city, Apr. 13, for reconstructing pumping station, (A) L. Chevalier, Inc., 207 East 43d St., New York City (awarded contract), (B) W. W. Kingston, Inc., 1 Washington St., (C) L. M. Neckerman, Inc., 103 Park Ave., New York City. The unit bids were as follows:

	A	B	C
Removing present roof and walls (lump sum)	$3,790.00	$840.00	$3,850.00
2,500 cu.ft. excavation brick masonry	30	343	162
300 cu.ft. excavation concrete masonry	84	1.30	.268
Excavation earth masonry	.10	.065	.072
Excavation rock masonry	.68	.40	.248
5,500 cu.ft. brick masonry	1.38	1.2809	1.32
1,500 cu.ft. concrete in floor (no forms)	.67	.74	.576
500 cu.ft. all other concrete	2.75	1.45	1.20
6,792 sq.ft. cement tile in roof (lump sum)	2,975.00	3,250.00	2,997.00
6,592 sq.ft. waterproofing on roof (lump sum)	1,800.00	2,856.00	2,502.00
57,000 lb. structural steel	.085	078	.084
1,200 lb. reinforcing steel	.10	.0614	.072
1,400 lb. floor plates	.15	.0925	.144
Windows and doors (lump sum)	1,680.00	2,262.00	2,197.00
1,450 sq.ft. wainscoting	1.10	2.04	1.74
2,200 sq.ft. tile floors	1.10	1.28	1.14
3,400 sq.ft. plastering	.45	.33	.42
10,000 sq.ft. painting (lump sum)	475.00	1,255.00	1,500.00
Crane (lump sum)	950.00	1,108.00	1,031.00
Appurtenances (lump sum)	1,520.00	1,751.00	1,769.00
Extended totals	$34,882	$34,995	$36,590

O., Euclid — For mains in Emerson, Prasse, Telhurst and Rainbow Rds., to A. Marra Co., Ulmer Bldg., Cleveland, $16,-953; Liberty Rd., to Joseph & Co., 877 Orange Ave., Cleveland, $10,255; Liberty Rd. to Consolo & Palermo Constr. Co., Benwood Ave., Cleveland, $12,927. Work includes 9,757 ft. 4, 6 and 8 in. c.i. pipe.

O., Toronto—Bd. Pub. Affairs, filtration plant and waterworks, to J. W. McLaughlin, Park Bldg., Pittsburgh, Pa., and Roberts Filter Mfg. Co., 6th and Columbia Sts., Darby, Pa., $142,100. Noted Mar. 15.

Mich., Grosse Pointe (Detroit P. O.) — Furnishing and laying 12,000 lin.ft. 6 in. c.i. mains, to Coolsaet Bros., 911 Detroit Savings Bank Bldg., Detroit, $26,000. Noted Apr. 26.

Sewers

PROPOSED WORK

Conn., Hartford — Plans laying sewer pipe, 2,000 ft. 36 in. rein.-con. and 3,000 ft. 18 in. vitr. clay in Granby St.; 1,000 ft. 45 in. rein.-con. and 1,000 ft. 15 in. vitr. clay in New Britain Ave. R. N. Clark, city engr.

Conn., West Hartford (Hartford P. O.)—Street Sewer and Water Comn. plans laying 4,000 ft. 15-20 in. vitr. clay storm sewers, 60 manholes, 40 catch basins, etc. $30,000. B. I. Miller, town mgr.

N. Y., Corning—Plans election to vote on $30,000 bonds new sewers and water main extensions. W. C. Drake, city engr. Noted May 3.

Tenn., Ripley—See "Streets and Roads."

O., Marion—Making plans and takes bids after June 1, main sanitary sewer. $200,-000. G. B. Gascoigne, Leader-News Bldg., Cleveland, engr.

O., Sandusky—See "Waterworks."

O., Wadsworth—Making surveys to determine if to junk present sewage and waterworks plant or to construct new plants. $100,000. R. E. Garvin, Davis & Farley Bldg., Cleveland, engr.

O., Warren—Plans 8-14 in. vitr. sanitary sewers in 2 streets. $25,000. G. T. Hecklinger, city clk.

Mich., Ann Arbor—Plans storm sewers incl. 2,225 ft. 36 in. segment block or concrete pipe, 440 ft. 22 in., 1,055 ft. 20 in. and 238 ft. 18 in. double strength vitr. pipe, 800 ft. 15 in. and 6,255 ft. 12 in. standard pipe, in Bway. and South Main Sts., Washtenaw and Forest Aves. F. J. Rentschler, pres. Bd. Pub. Wks.

Mich., Detroit—Dept. Pub. Wks., had plans prepared for 46,233 ft. of 12-36 in. vitr. crock sewers in Alleys 3853, 3906 and 3910-3920 inclusive. J. W. Reid, city engr.

Ill., Joliet—See "Waterworks."

Ill., Phoenix (Thornton P. O.)—Plans sewerage system. $200,000. A. W. Hersey, City Hall, Harvey, engr.

S. D., Hartford—Having plans prepared sewer improvements, sewage disposal plant, etc. $35,000; extending watermains, $4,000. Chenoweth, Kennedy & Rettinghouse, Boyce-Greely Bldg., Sioux Falls, engrs.

Calif., Alhambra—See "Waterworks."

Calif., Huntington Park—Voted $250,000 bonds for sewerage system. Noted May 3.

Calif., Los Angeles—Had plans prepared 15.4 mi. outfall sewerage system, 7.2 mi. to be semi-elliptical design, 12 ft. high, 13 ft. wide, 2 mi. of foregoing to be laid in open cut and balance in tunnel, remaining 8.2 mi. to be circular pipe 4 ft. 9 in. to 8 ft. 6 in. Bids will be taken on following kinds of pipe: elliptical sewer, brick arch on concrete base with vitr. brick ring, segmental block for upper quadrant and liner for remainder of interior surface above concrete base: circular sewer (1) brick arch on concrete invert (2) segmental block on concrete base (3) pre-cast rein.-con. pipe with vitr. tile lining on concrete base. W. T. Knowlton, city sewer engr.

Calif., San Pablo—San Pablo Sanitary Dist. had plans prepared sewers in portions Gertrude St., 11,000 lin.ft. 6 in. vitr. pipe, etc. R. L. Calfee, 221 South 22nd St., Richmond, consult. engr.

Ont., Elmira — Plans rein.-con. sewage disposal plant, either sedimentation tanks or activated sludge. $30,000. J. H. Ruppel, city clk. Engineer not selected.

Ont., Hamilton—Gore, Nasmith & Storrie, consult. engrs., Confederation Life Bldg., Toronto, submitted report to city for 3 alternate sewage disposal schemes, Imhoff tank system $1,118,000, activated sludge system $1,447,000, sedimentation system with sludge disposal $814,000. Engineers propose construction of sedimentation system and that (1) existing west end sewage disposal works be remodeled and extended $60,000 (2) Wentworth St., Ferguson and Gage Aves. systems be abandoned (3) all sanitary sewers be connected to new disposal works or to one of existing works.

Ont., Kitchener—Having plans prepared activated sludge plant with gravity system, booster pump and station. $85,000. S. Shupe, city engr. Prices wanted on materials.

Ont., Milton — Having plans prepared sewerage system, 10,000 ft. 8, 10 and 12 in. vitr. pipe. $30,000. Chipman & Power, 272 Bay St., Toronto, engrs.

Ont., Toronto—Plans 20,000 ft. 8 in. vitr. sewer in Beisize Dist. $69,500. R. C. Harris, city engr.

Ont., Toronto — Having plans prepared sanitary sewers in Avenue Rd., Oriole Parkway, Burnaby and Willowbank Blvds. $21,075, Brookdale Ave. $5,250. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Long Island City—May 16, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Chauncey, Wellington and 86th Sts., Elliot, 102nd and Mt. Olivet Aves., Evelin St. from Fresh Pond Rd. to Azalea St., Evelin St. from Azalea St. to Mt. Olivet Ave.

N. Y., Mamaroneck—May 14, by E. L. Howe, village clk., completing sewage disposal works. J. M. Duffy, village engr.; Fuller & McClintock, 170 Bway., New York City, engrs.; adv. this issue.

N. Y., Tonawanda—May 23, by Tonawanda Town Bd., Village Hall, Kenmore, disposal plant. G. C. Diehl, 575 Ellicott Sq., Buffalo, town engr.; adv. this issue.

Pa., Williamsport—May 15, 4,123 ft. 8 and 10 in. sanitary sewers, 5,830 ft. 10, 12, 15, 18, 20, 24, 27 and 30 in. storm sewers, terra cotta, segmental block, concrete, etc. L. Mussina, city engr.

Md., Baltimore—May 16, by Bd. Awards, 978 lin.ft. 10 in. and 3,858 lin.ft. 8 in. vitr. sewer, 3,552 lin.ft. house connections, 25 manholes, Dist. 7-B, Contr. 193. $70,000. C. F. Goob, City Hall, highway engr.

Sewers (Continued)

Md., Easton—May 31, by Mayor at Council Chamber, extensions to sewerage system. E. G Kastenhuber, Jr., town engr.; adv. this issue.

D. C., Wash.—May 29, by Dist. Comrs., 509 Dist. Bldg., constructing sewer; adv. this issue.

N. C., Davidson—See "Waterworks."

O., Akron—May 21, by W. F. Peters, dir. Pub. Serv., 1,124 lin.ft. 72 in. brick or segmental block sewer in Firestone Blvd. $48,000; 5,665 ft. 8-30 in. vitr. sewer in Cuyahoga Falls and Lexington Aves., et al, $36,000; 7,670 lin.ft. 8-24 in. sewer in Cuyahoga Falls and Birchwood Aves., et al, $38,000; 6,940 ft. 8-24 in. vitr. sewer in Cuyahoga Falls and Big Falls Aves., et al, $51,000; 5,840 ft. 8 in. vitr. sewer in Lakemont Ave., et al, $21,000. J. E. Root, Delaware Bldg., engr.

O., Columbus—See "Streets and Roads."

Mich., Detroit—May 25, by Dept. Pub. Wks., Connors Creek Sewer, Alternate A, 5 centered arch, 5,730 ft. long; Alternate B, 3 barrels sect. 10 x 14 ft., 5,375 ft. long, 57 ft. of 10 ft. 6 in. cylinder. J. W. Reid, city engr.

Mich., Pontiac—May 21, at office H. A. Maurer, city clk., sanitary sewers, Jobs 223, 224, 225 and 226; adv. this issue.

Wis., Fond du Lac—May 14, by J. F. Hohensee, city clk., 5,515 ft. 8 in. vitr. sanitary and 5,620 ft. 10-18 in. vitr. storm sewers in various streets. $35,000. G. H. Stanchfield, City Hall, engr.

Wis., West Allis—May 14, by Bd. Pub. Wks., 19,000 ft. 8 and 10 in. vitr. clay, sanitary and storm sewers. $60,000-$65,000. W. Darby, city engr.

Ia., Creston—May 21, sewage disposal plant incl. 150,000 gal. septic tank, sludge beds, 1,000 ft. sewer, etc. P. K. DeVoe, city engr.

BIDS RECEIVED

Mass., Boston—Pub. Wks. Dept., 352 ft. 9 ft. 10 in. x 8 ft. 10 in. and 235 ft. 6 ft. 8 in. x 6 ft. 1 in. concrete sewer, in East Cottage and Humphrey Sts., from V. Barletto, c/o Pub. Wks. Dept., $58,033. Noted Apr. 19.

N. J., Morris Plains—A. B. Mills, state archt., State Office Bldg., Trenton, sewage disposal plant, incl. 200 ft. concrete tank, 7 ft. deep, etc., at Hospital for Insane, here, from F. M. Arnolt, 699 Clinton St., Newark, $91,000. Noted Apr. 19.

O., Cleveland—Cuyahoga Co. 8,200 ft. 12-18 in. vitr. clay sewers in Sect. 9-B, from Langaham Constr. Co., Marshall Bldg., $100,091. Noted Apr. 19.

Mich., Detroit—Dept. Pub. Wks., Blaine Ave. Arm W. in Blaine Ave., and Warren Ave. Arm East, Sect. 2 of Ashland Ave. Sewer, from J. A. Mercier, 616 Hammond Bldg., $31,914 and $67,534 respectively; Warren Ave. Arm East Sect. 1, Connors Creek Sewer, from Jeynes & Affeld, 1208 Ford Bldg., $53,795; Warren Ave. Arm East Sect. 3, Ashland Ave. Sewer, from Anderson & Campbell, Detroit (street address not available), $48,231; Warren Ave. Arm East Sect. 4, Bedford Rd. Sewer, from Liberty Constr. Co., 1026 Detroit Savings Bank Bldg., $56,687. Noted May 3.

Calif., Riverside — Sewers in various streets, incl. 48,162 lin.ft. 6-24 in. vitr. and 7,930 ft. 18-22 in. rein.-con. pipe, etc., from H. D. Churchill, Co., 350 Merrick St., Los Angeles, $117,348. Noted Apr. 19.

CONTRACTS AWARDED

Mass., Boston—Pub. Wks. Dept., 365 ft. 6 x 6 ft. concrete sewer, Farragut Rd. extension, to C. & R. Constr. Co., 3 Tremont Row, $37,935. Noted Apr. 19.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, sewer in Schenectady Ave., to B. Peconi & Sons, 88% of engrs. est. ($14,150); 84th St., to M. Tozzi, 1362 63rd St., 93% ($6,906); Highlawn and Troy Aves., to Tomasetti & Co., Inc., 1133 60th St., 88.5% ($4,510) and 88% ($3,179) respectively; Empire Blvd., to J. Jennings, Belle Harbor, 107% ($3,554); Lott Ave., to Manmill Constr. Co., 2035 Douglas St., 109% ($1,001); Maple St., to P. Muscio, 2715 East 23rd St., 114% ($892). Noted Apr. 12.

N. Y., Buffalo—A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., 33 ft. 6 in. and 32 ft. 6 in. rein.-con. storm water drain at Scajaquada Creek, to F. L. Cohen, Inc., Prudential Bldg., $1,379,233. Noted May 3.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Mitchell Ave., Lawson, Millard and Norwood Sts., etc., to J. Gallo, 203 Division St., Brooklyn, $63,022. Noted Apr. 26.

Md., Baltimore—Mayor and City Council, Storm Water Contr. 57, to Ryan Constr. Co., 735 Real Estate Trust Bldg., Phila., $107,003. Noted May 3.

Ky., Louisville—For 34th St. sewer and laterals, to Cannel-Conrad Constr. Co., Brook St. and Avery Ave., $120,334 and $47,203 respectively. Noted Apr. 5.

O., Cleveland—For 1,430 ft. 24 in. vitr. tile sewer in Melba Ave., to G. Derwish, Cleveland (street address not available), $4,498; 320 ft. 3 C and 320 ft. 2 C brick sewer in Prince Ave., to J. Lahnom, 1133 East 71st St., $26,228. Noted May 3.

O., Cleveland—Cuyahoga Co., 17,613 ft. 18-30 in. vitr. clay sewer in Ridge Rd. Impvt. 9, Sect. A, to D. Zullo, 10614 Frank Ave., $233,272. Noted May 3.

Ind., South Bend—Bd. Pub. Wks., to G. F. Santry Co., 809 South Leavitt St., Chicago, 5,986 ft. 6-12 in. vitr. clay sewer, etc., in Clyde, Kinyon, Anderson, Medora, Lafayette and Marietta Sts., Indiana, and Parkovash Aves., $12,456, engrs. est. $14,629; to Staples & Ackerman, 424 West Madison St., 7,789 ft. 6-15 in. vitr. clay sewers in Fairview, Calvert and Victoria Sts., and Oak Park Court, $15,927, engrs. est. $18,398; to G. McGillicuddy, Valparaiso, 4,995 ft. 6-18 in. vitr. clay in Brookfield and William Sts., $12,241, engrs. est. $12,471. Noted Mar. 8.

S. D., Leola—Lateral sewers and sewage disposal plant, to Phelps-Drake Co., 719 Metropolitan Life Bldg., Minneapolis, Minn., $25,000. Noted Nov. 2.

Mo., Richmond Heights (St. Louis, P. O.)—H. E. Prettyman Co., United Home Bldg., St. Louis, 20,000 ft. 8-24 in. vitr. sewers in Pennsylvania Park subdivision, here, to Myers Constr. Co., Merchants Laclede Bldg., St. Louis. Engrs. est. $30,000. Noted May 3.

Wyo., Laramie—To D. S. Reid, Denver, Colo. (street address not available) outfall sewers and sewage disposal plant, on basis of alternate outfall and 27 in. Lock Joint pipe on outfall $117,094. Noted Apr. 5.

Tex., Navasota—Rein.-con. storm sewers, to Smith Bros., Sumpter Bldg., Dallas, $49,794. Engrs. est. $50,000.

Utah, Ogden — For 14,618 ft. 8-12 in. concrete sanitary sewers, Dist. 147, to Union Constr. Co., Ogden (street address not available), $52,903. Noted Apr. 5.

Calif., Mayfield—Sanitary sewers, incl. 5,500 lin.ft. 6 in. vitr. and 29,000 lin.ft. 4 in. c. i. pipe, etc., to W. J. Tobin, 527 Santa Ray Ave., Oakland, $39,000. Noted May 3.

Waste Disposal

PROPOSED WORK

O., Lakewood (Cleveland, P .O.)—Selling $88,000 bonds for garbage disposal plant. E. A. Fischer, city engr.

BIDS DESIRED

O., Cleveland—May 16, by J. F. Maline, dir. Pub. Serv., City Hall, garbage disposal plant, 400 ton capacity, at Willow, Cuyahoga Heights. $750,000. R. Hoffman, city engr. Noted Apr. 5.

BIDS RECEIVED

Wis., West Allis—Bd. Pub. Wks., Apr. 30, 20 ton garbage incinerator, from Nye Odorless Crematory Co., Georgia Life Bldg., Macon, Ga., $22,500. Noted Mar. 15.

CONTRACTS AWARDED

N. Y., Sea Cliff—Village Trustees, combined garbage incinerator plant and storage building, to Decarie Incinerator Co., 45 Pine St., New York City. Noted Feb. 8.

Wis., Sheboygan — Incinerator, 15 ton daily capacity, to H. Dollarhelde, 1010 South 2nd St., Springfield, Ill., $18,885. Noted Apr. 26.

Bridges

PROPOSED WORK

N. Y., Fine—Had plans prepared 140 ft. rein.-con. and steel bridge, 20 ft., over Oswegatchie River, $35,000, also bridge over Little River, 40 ft. wide, $15,000. Concrete Steel Eng. Co., 21 Park Row, New York, engrs.

Pa., Allentown—Plans bridge over Lehigh River, Tilgham St. $300,000.

Fla., Clearwater — Pinellas Co. election June 10, to vote on $50,000 bonds 4 concrete bridges on Bayshore Rd. at Dunedin and Ozona; $35,500 for bridge and lift over Tarpon Bayou and reconstructing Belair - Anona and Sunset - Coachman Bridges; $125,000 for several steel bridges on Rds. 1, 2, 3, 4, 5, 6 and 7. C. E. Burleson, Clearwater, engr.

Fla., Ft. Pierce—Ft. Pierce Financing & Constr. Co. plans bridge over Indian River here. $300,000. E. Robb, Ft. Pierce, engr.

Fla., Miami—Dade Co. having plans prepared Belle Isle Bridge on location of old pile bridge, 400 ft. long, 27 ft. roadway. $50,000. W. E. Brown, Miami Beach, engr.

Fla., Miami—Dade Co. sold $150,000 bonds concrete bridge over canal. H. Crabtree, 13th St. and Ave. S, engr.

Fla., Tampa—Hillsboro Co. having plans and estimates prepared creosoted wooden bridges, 25 ft. wide, 75 to 100 ft. long, on Ruskin, Temple Terrace and Thonotassa-Plant City Rds., $25,000; on Hopewell-Tampa, Plant City-Picnic and Lithia Rds., $25,000. A. B. Pimm, Tampa, engr.

Louisiana—State Hy. Dept., Baton Rouge, plans 37 concrete bridges to replace wooden ones in West Baton Rouge Parish, $63,000. 2 on Port Allen-Plaquemine Highway and 27 on Port Allen-Rosedale Highway, 3 bridges will have new steel spans with concrete headwalls. J. M. Fourmy, state engr.

La., Algiers (New Orleans, P. O.)—J. Klorer, city engr., New Orleans, preparing plans reconstructing Newton St. viaduct, here. $80,000. Cost to be borne by South New Orleans Light & Traction Co. and Southern Pacific R.R.

Ill., Chicago—Illinois Central R.R., 135 East 11th Pl., plans improving bridge over Big Black River east of Aberdeen Jct. $50,000. F. L. Thompson, ch. engr.

Ill., Highland Park—See "Streets and Roads."

Kan., Iola—Allen Co. had plans prepared Coal Creek Bridge, 20 x 140 ft. concrete through arch span. Marsh Eng. Co., 206 Masonic Temple Bldg., Des Moines, Ia., designing engrs. A. R. Stroup, co. engr.

Kan., Saline—Saline Co. and Dickinson Co. (Abilene) had plans prepared 20 x 150 ft. rein.-con. through arch span. Marsh Eng. Co., 206 Masonic Temple Bldg., Des Moines, Ia., engrs.

Kan., Topeka — Shawnee Co. making plans three 100 ft. span concrete through arch bridges on Dover Rd., Federal Aid Project 141. Marsh Eng. Co., 206 Masonic Temple Bldg., Des Moines, Ia., engrs.

Tex., Rockdale—See "Streets and Roads."

Wash., Kelso—Cowlitz Co. plans 200 ft. steel bridge over Touttle River, to replace Manna Bridge. E. A. Middlebrook, Kelso, engr.

Ont., Arthur — Provincial Dept. Highways, 110 University Ave., Toronto, having plans prepared for rein.-con. arch bridge, 100 ft. long, 30 ft. wide, here. $45,000. G. Hogarth, ch. engr.

BIDS DESIRED

O., Fremont—May 18, by Sandusky Co., 320 ft. concrete arch Bridge, 44 ft., over Sandusky River, on State St. $156,000. Braun, Fleming, Knollman & Prior, 233 South High St., Columbus, engrs. Noted Mar. 22.

Mich., Grand Haven—June 5, at office City Manager, jointly by F. F. Rogers, state highway comr. and City, Bridge 701302; adv. this issue.

Wis., Ladysmith—May 25, by J. A. McLean, engr., 1417 North 12th St., Superior, 245 ft. concrete bridge, 18 ft., on concrete and pile foundation, across Wertgar Creek, for Rusk Co. $28,000.

Missouri—May 15, by State Hy. Dept., Jefferson City, one 70 ft. steel truss span, Texas Co., three 40 ft. I-beam spans, Pemiscot Co., two 140 ft. and two 80 ft. steel truss spans, Hickory Co., one 40 ft. rein.-con. deck girder span, Platte Co., three 16 ft. rein.-con. slab spans, St. Clair Co., one 70 ft. steel truss span, Ripley Co., two 35 ft. rein.-con. deck girder spans, Texas Co., three 20 ft. rein.-con. slab spans, St. Clair Co., one 70 ft. steel truss spans, Ripley Co., all 20 ft. roadways, etc.; two 10 x 12 ft. rein.-con. box culverts, Platte Co. B. H. Piepmeier, state highway engr.

Mo., St. Louis—June 5, by Dept. Pub. Serv., 1,200 ft. rein.-con. and steel bridge, 80 ft., with 550 ft. southern and 200 ft. northern approach, 14th St. $450,000. Noted Feb. 8.

Ont., Woodstock—May 12, by F. J. Ure, engr. Oxford Co., one 78 ft. steel truss, one 42 ft. steel girder bridges, one 30 ft. concrete culvert, one 14 ft. concrete slab culvert, and concrete floors on bridges. $30,000.

BIDS RECEIVED

Alabama—State Hy. Dept., Montgomery, 914 ft bridge on Alexander City-Jacksons Gap Rd., Florida Short Route, near Sturdivant, Tallapoosa Co., superstructure from

Bridges (Continued)

Virginia Bridge & Iron Co., 3900 8th Ave. N., Birmingham, six 150 steel spans $81,528, five 150 steel spans, concrete floor, $69,284; substructure from Columbus Constr. Co., Columbus, Ga., six 150 ft. spans, mass piers, cyclopean mix concrete $62,156, from Hardaway Contg. Co., Columbus, Ga., six 150 ft. spans, dumb-bell type piers, Class B concrete $55,639, alternate design with five 150 ft. spans, and approach of three 40 ft. girders, mass piers and girders $80,622, dump-bell type piers and girders, $67,455. Noted Apr. 12.

Wis., Milwaukee — Dept. Pub. Wks., widening Folsom Pl. Bridge, substructure from W. H. Gillen, 204 Grand Ave., $65,000; superstructure, from Wisconsin Bridge & Iron Co., North Milwaukee, $78,950. Noted Apr. 19.

Ia., Greenfield—Adair Co., 3 span concrete and steel viaduct over Chicago, Rock Island & Pacific R.R. tracks, here, two 55 ft. and one 80 ft. deck arch span, 24 ft. roadway, one 5 ft. sidewalk, from Federal Bridge Co., 1002 Bankers Trust Bldg., Des Moines, $42,263. Noted Apr. 26.

CONTRACTS AWARDED

N. H., Manchester—Bridge over Merrimack River, to T. Stuart & Son, Blake St., Newton, $824,500. Noted Feb. 22.

N. Y., Brooklyn—Transit Comn., 49 Lafayette St., New York, concrete and steel highway bridge, 9th Ave. between 37th and 39th Sts., here, to M. A. Charles, 6831 Ridge Rd., $49,900. Noted Apr. 26.

Pa., Jersey Shore—Comrs. Lycoming Co. (Williamsport) and Clinton Co. (Lock Haven), 130 ft. 3 span concrete arch bridge over Pine Creek, near here, to Whittaker & Diehl, Union Trust Bldg., Harrisburg, $86,467. Noted Apr. 12.

North Carolina—State Hy Dept., Raleigh, rein.-con. bridges and culverts on State Project 835, Henderson Co., to R. C. Stephens, Asheville, $69,476.

Fla., Ft. Lauderdale—Broward Co. rein.-con. arch bridge over Dania Cut-Off Canal on line of Dixie Highway, 55 ft. span, 18 ft. roadway, two 5 ft. walks, to J. A. Saxon, Pompano, $4,373; steel swing highway drawbridge crossing Hillsboro River on line of Ocean Blvd., 16 ft. roadway, to Champion Bridge Co., Wilmington, O., $34,632.

Ia., Bloomfield—Davis Co., 43 rein.-con. box culverts and 5 culvert extensions, 1 I-beam, to Ottumwa Supply & Constr. Co., Ottumwa, $25,555, concrete figures $22.12 per cu.yd.

Ia., Tipton—Cedar Co., to H. and M. Constr. Co., Muscatine, 40 concrete box culverts, $15,253 (concrete $21.64 per cu.yd.); V. L. Hanssen, Monticello, two I-beam spans, $8,645 (concrete $23.03) J. B. Elliott, Independence, 23 box culverts, 1 I-beam span and 1 circular culvert extension, $16,527 (concrete $23.52.)

Ia., Vinton—Benton Co.—to M. O. Burnett, Marengo, 2 pony trusses and 1 slab, $12,775 (concrete $22.66 per cu.yd.); Waterloo Constr. Co., 1 pony truss, 1 I-beam and 29 box culverts, $21,475 (concrete $21.89 and $22.66.) E. D. Troxel & Son, Vinton, 16 box culverts $5,658 (concrete $17.40.)

Missouri—State Hy. Dept., Jefferson City, one 40 ft. and four 25 ft. I beam, twenty 10 ft. rein.-con. slab and one 80 steel truss spans, 20 ft. roadways, etc., Stoddard Co., to Service Constr. Co., Poplar Bluff, $41,457; one 25 ft. rein.-con. deck girder span, 20 ft. roadway, Clay Co., to Highway Constr. Co., Webb City, $7,767. Noted Apr. 19.

Colorado—See "Streets and Roads."

Calif., Fresno—Fresno Co., 4 rein.-con. bridges on state highway in Warthan Canyon, southwest of Coalinga, to Lisher & Carillo, Napa, $36,625.

Ont. Brigden—J. McCallum, road supt. Lambton Co., Alvinston, 150 ft. steel bridge on concrete abutments, 18 ft. roadway, over Bear Creek, concrete work to A. Kirkpatrick, Petrolia, steel work to Sarnia Bridge Co., Sarnia. Engrs. est. $40,000. Noted Mar. 8.

Dams

PROPOSED WORK

Ia., Elkader—Peoples Electric Service Co. plans dam in Turkey River and hydro-electric power plant. Engineer not announced.

Calif., Santa Barbara—See "Miscellaneous."

BIDS DESIRED

Kan., Horton—See "Waterworks."

CONTRACTS AWARDED

N. C., Lenoir—Constructing dam and laying 20,000 ft. 12 in. pipe, gravity line, to Harris & Spalding, Newton, $35,000. City furnishes material. Total cost $100,000.

Railways

PROPOSED WORK

New York—Erie R.R., 50 Church St., New York City, plans 4 tracks on main line between Hornell, N. Y. and Susquehanna, Pa. $326,000. R. L. Dyke, Hornell, div. engr.

New York—Schenectady Ry. Co., 512 State St., plans new trackage and rail renewal on Erie Blvd. To exceed $25,000. W. S. Hamilton, supt.

Kentucky—Louisville & Nashville R.R., 9th St. and Bway., Louisville, plans double tracking 40 mi. from Pineville to Harlan on Cumberland Valley Div. W. H. Courtenay, ch. engr.

Michigan — Detroit Dept. Street Railways, St. Jean Ave., Detroit, approved $5,000,000 bond issue for street railway extensions, double and single tracks with overhead wiring, twin steel tie construction. W. C. Markham, Marquette Bldg., Detroit, ch. engr.

Ontario—City of Brantford will improve, repair and extend street railways, by day labor. $40,000. F. P. Adams, city engr.

Excavation, Drainage Irrigation

PROPOSED WORK

Fla., Miami — Dade Co. sold $100,000 bonds for cutting inlet between Biscayne Bay and Atlantic Ocean, 1,500 ft. long, 200 ft. wide, protected by steel sheet piling and stone jetties, 10,000 cu. yd. earth and 260,000 cu.yd. rock excav. H. Crabtree, 13th St. and Ave. S, engr.

Fla., Miami—Dade Co. plans 10 mi. drainage canal from north of Arch Creek into Biscayne Bay. $425,000. Biscayne Eng. Co., Biscayne Bank Bldg., engrs.

Minn., LeSueur Center — LeSueur and Rice Counties plan Judicial Ditch 2, 29 mi. open ditch, 750,000 cu.yd. excav., 7 laterals, 250,000 cu.yd. excav., 127,771 lin.ft. 6-24 in. tile. $150,000. A. J. Bradshaw, LeSueur Center, engr.

Calif., Chico — Irrigation District being organized, had preliminary plans prepared irrigating 15,000 acres in Butte Co. incl. 20.8 mi. canals, two 24 in. and two 12 in. centrifugal pumps, operated by electric motors of 200 hp. To exceed $1,000,000. J. B. Thompson, Chico, engr.

BIDS DESIRED

N. Y., Brooklyn—May 21, by J. H. Delaney, comr. Docks, Pier "A" foot of Battery Pl., North River, New York, dikes and dredging channel between Mill Basin and Paerdegat Basin, Jamaica Bay, here. Contr. 1797.

Miss., Rolling Fork — June 5, by Bd. Comrs. of Otter Bayou D.D. of Sharkey, Washington and Issaquena Counties, improvements in above district. J. B. Sinai, pres.; adv. this issue.

Minn., Crookston—May 23, by H. J. Welte, aud. Polk Co., Co. Ditch 55, 95,912 cu.yd. excav., 2,200 lin.ft. 24 in. and 1,800 lin.ft. 12 in. tile, 168 ft. 3-5 ft. culvert pipe. $25,000.

CONTRACTS AWARDED

B. C., Penticton—Provincial Government, Victoria, excavating 6 mi. irrigation ditch for Soldier Settlement at Oliver, near here, to D. Keith, Penticton, $40,000.

Streets and Roads

PROPOSED WORK

Conn., Hartford—Plans paving 2,000 ft. Commerce St., 30 ft., and 3,000 ft. Asylum Ave., 45 ft., asphalt on concrete, $25,000 and $100,000 respectively. R. N. Clark, city engr.

N. Y., Herkimer—Plans concrete paving Henry St., Pleasant and Park Aves. $35,000-$40,000. C. Stewart, village pres.

N. Y., Rochester—Monroe Co. plans paving Parma-Clarkson Town Line, Long Pond, Stoney-Lonesome, Carter, Riga-Chester and Telephone Rds., Thomas Ave. in Irondequoit, Colby St. in Ogden and Holt St. in Webster, various materials. $65,000.

N. Y., Waterloo—Plans bituminous macadam paving on 10 streets. $26,000. A. R. Moore, village clk.

Pa., Erie—Plans asphalt pavement on 29th St. $44,700, Lincoln Ave. $35,600. F. G. Lynch, city engr.

Pa., Franklin—Plans paving Eagle St., brick, bitulithic, asphalt or some other material. $25,000.

Pa., Pittston—Plans paving Tompkins St. $25,000, Oak St. and Jenkins Alley $25,000. Engineer not announced.

Pa., Scranton—Plans paving Church St., sheet asphalt on concrete or stone. $25,000.

Pa., Wilkes-Barre—Plans sheet asphalt pavements on Gilligan and Horton Sts. $25,000, New Grove St. $25,000. F. Gates, city clk.

Fla., Jacksonville — Duval Co. election May 15, to vote on $500,000 bonds paving 19.968 mi. St Augustine Rd 1; $600,000 paving 15.853 mi. Atlantic Blvd No. 2 (2 roadways) from South Jacksonville to Atlantic Ocean at Neptune; $260,000 paving 10.254 mi. Kings Rd. 3; $320,000 paving 12.83 mi. Main St. Rd. 4; $160,000 paving 6.297 mi. Edgewood Ave. No. 12 and Moncried Rd. 9; $138,000 paving 5.51 mi. San Jose Blvd. 26; $50,000 paving 2.086 mi. First Ave. 66, and 3rd St.; $280,000 paving 7.756 mi. Orange Park Rd. 5; $125,000 paving 7.2 mi. Baldwin-Maxwell Rd. 23. F. Brown, clk.

Ala., Birmingham—Plans widening from 30 to 50 ft. and bitulithic paving 1st Ave. north from 41st to 47th Sts. $50,000. A. J. Hawkins, city engr.

Ala., Sheffield—Will sell $150,000 bonds, asphalt paving 10 blocks and laying 100 blocks cement sidewalks.

Tenn., Ripley—Voted $100,000 bonds improving various streets and laying sewers.

Kentucky—State Hy. Dept., Frankfort, plans 8 mi. Dixie Bee Line Rd. out of Henderson, Henderson Co. $127,000. J. S. Boggs, state highway engr.

Ky., Paducah — City takes bids about June 8, for 60,000 sq.yd. concrete or bituminous pavement with concrete base. H. A. Pulliam, comr. pub. wks. and ch. engr.

Ky., Saylersville — Magoffin Co. plans grading 10 mi. Saylersville-West Liberty Rd.

O., Canton—Plans paving 11th St. S. W., 13th St. S. W., 17th St. N. W., Market Ave. S. and Goodman Pl. S. W. W. E. Sarver, city engr.

Ind., Indianapolis—Marion Co. plans concrete paving 78,643 sq.yd. Michigan Rd $204,672. J. J. Griffith, co. engr.

Ind., Jeffersonville—Clark Co. plans 5.7 mi. William Schleicher Rd., Wood Twp. $71,465. K. P. Barnes, co. surv.

Ind., Laporte—Laporte Co. plans grading and graveling 2.3 mi. Harry H. Pinney Rd., 20 ft. $25,989. P. Summy, Laporte, engr.

Ind., Mishawaka—Takes bids early in June, paving East and West 4th, and West Battell Sts. $100,000. J. L. Stevens, city engr.

Ind., Mt. Vernon—Plans concrete surfacing 8,840 sq.yd. 5th St. $29,442. J. E. Anderson, city engr.

Ind., South Bend—Bd. Park Comrs. plans resurfacing Jefferson Blvd. from Eddy St. to St. Joseph River, probably sheet asphalt. $50,000.

Ind., Winchester—Randolph Co. plans grading and graveling 15,725 ft. Heston Rd., 24 ft., $25,702; 13,400 ft. Thornburg Rd., 24 ft., $25,707; concrete paving 36,911 sq.yd. J. J. Bailey Rd., $72,107. A. B. Purdy, Winchester, engr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and gravel surfacing 4 mi. road, 9 ft. wide, Washtenaw and Wayne Counties. F. F. Rogers, state comr.

Mich., Detroit—Had plans prepared paving 11 streets, incl. 48,838 cu.yd. excav., 84,848 sq.yd 3½ in. sheet asphalt on 8 in. concrete, 43,166 lin.ft. curb. J. W. Reid, city engr.

Mich., Detroit—Having plans prepared grading and paving 132 alleys with 6 in. one course concrete, 16 to 20 ft. J. W. Reid, city engr.

Mich., Springwells — Had plans prepared 200,000 sq.ft. concrete sidewalks on Dix Ave., Villas Subdivision. $35,000. C. W. Hubbell, 2348 Penobscot Bldg., Detroit, engr.

Ill., Highland Park—Plans concrete paving Sheridan Rd. and in Ravinia Woods. Project includes 3 bridges. $2,000,000 Windes & Marsh, 598 Birch St., Winnetka engrs.

Ia., Hull—Making plans paving about 40 blocks. $125,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Streets and Roads (Continued)

Ia., Marshalltown—O. J. Herm, city engr., takes bids about June 1, paving 17,000 yd. Main St., brick, concrete, asphaltic concrete or vibrolithic. $100,000.

Kan., Liberal—Seward Co. making plans surfacing, etc., Federal Aid Project 153, Great Plains Rd., 27,000 cu.yd. sand clay, 25,000 cu.yd. excav., etc., J. D. Burwick, Liberal, engr.

Kans., Norton — Norton Co. soon takes bids earth road 7.528 mi. Ocean to Ocean Highway, 30 ft. Kansas Eng. Co., Topeka, (street address not available), engrs.

South Dakota—State Hy. Dept., Pierre, plans grading 7.24 mi. Dewey Co. $43,424, 12.51 mi. Corson Co. $49,706, 5.77 mi. Custer Co. $38,333, 12 mi. Douglas Co. $58,639, 7.06 mi. Lawrence-Mead Counties $65,050; grading and gravel surfacing 7.75 mi. Union Co. $55,173; one 150 ft. steel truss bridge, Ziebach Co. $18,436. F. D. Hudgins, ch. engr.

Tex., Navasota — Making plans paving streets $90,000, and swimming pool $10,000. E. F. Blackshear, mayor.

Tex., Rockdale—Milam Co. election latter part of May to vote on $62,000 bonds for graveling Add Hall Rd. and concrete viaduct over Little River. Total $120,000. A. F. Mitchell, Cameron, engr.

Okla., Norman — Cleveland Co. voted $500,000 bonds grading, bridging and concrete paving 40 mi. roads. State Hy. Dept., Oklahoma City, engrs.

Okla., Oilton—City will vote on $75,000 bonds paving various streets.

Utah, Ogden—Soon takes bids hard surfacing 10½ blocks 32nd St., Dist. 141. $120,000. W. S. Craven, city engr.

California—State Hy. Dept., Sacramento, had plans prepared grading and gravel surfacing 4½ mi. road near Gilroy, San Benito Co., 40,000 cu.yd. excav., 9,000 cu.yd. gravel, etc. R. M. Morton, state highway engr.

Calif., Oroville—Butte Co. plans surfacing 3 mi. Riceton Rd., graveling and surfacing with crushed rock 16 mi. Humboldt Rd., 8 mi. to be heavy grading and 8 mi. light grading; having plans prepared surfacing on existing base 5 mi. Biggs-Princeton Rd., light grading 12 mi. Oroville-Pentz Magalia Rd., grading and surfacing 5.5 mi. Oroville-Quincy Rd., asphalt macadam paving on 3 or 4 in. base 1.4 mi. Oroville-Marysville Rd., 15 ft.; had plans prepared 4.8 mi. 2 course asphaltic concrete, 2 in. base, 1½ in. surface on existing 6 in. gravel base and 4.82 mi. to be regraveled on Gridley-Colusa Rd., 15 ft. H. H. Hume, co. road engr.

Calif., Oroville—Butte Co. soon takes bids paving 1.5 mi. Gridley-Colony Dist., probably asphalt macadam. H. H. Hume co. road engr.

Calif., San Bruno—City Trustees received no bids grading, concrete curbing, guttering, sidewalks and paving portions Acacia, Tucker and Linden Sts., etc., 30,000 cu.yd. grading, 246,000 sq.ft. waterbound macadam with oil and screenings surface, etc. Will readvertise shortly. Noted Apr. 26.

Calif., San Francisco—City and San Francisco Co. had plans prepared curbing and paving 47th Ave., 4,200 sq.ft. vertical fibre brick, 21,200 sq.ft. concrete and 28,886 sq. ft. asphaltic concrete, etc., Kansas St., 16,000 sq.ft. concrete pavement, etc. M. M. O'Shaughnesssy, city engr.

Calif., San Francisco—Had plans prepared improving 29th Ave. between Cabrillo and Fulton Sts., 20,500 cu.yd. fill. $30,750. M. M. O'Shaughnessy, city engr.

Calif., San Rafael—Marin Co. had plans prepared grading portion Lucas Valley Co. Rd., in Dist. 1, 16,728 cu.yd. grading, 1,262 cu.yd. surfacing, etc.

Calif., Stockton — Will take new bids concrete curbing, guttering, sidewalks and paving with 2 in. asphaltic concrete on 3 in. crushed rock portions of East Scotts, Laurel, Ash and Court Sts., etc. Former bid rejected. W. B. Hogan, city engr.

Calif., Vacaville—Having plans prepared paving 25 blocks, asphalt macadam. F. A. Steiger, Fairfield, engr. Noted Apr. 26.

Calif., Visalia—Had plans prepared grading, curbing, guttering and paving portion Willis St., 194,370 sq.ft. 1½ in. warrenite bitulithic on 2½ in. asphaltic concrete, etc. L. H. Gadsby, city engr.

Calif., Yreka—Siskiyou Co. to vote on $500,000 bonds constructing roads. A. J. Parrott, co. surv.

Ont., Alvinston—Brooke Twp. plans 10 mi gravel roads. $30,000. Engineer not selected. W. J. Weed, Inwood, twp. clk.

Ont., Brantford—Having plans prepared 20,000 sq.yd. asphalt and concrete pavements. $84,000. F. P. Adams, city engr.

Ont., Ottawa—Having plans prepared 25,000 sq.yd. wood block and asphalt pavements $112,000, 1,300 sq.yd. tarvia pavement $5,000. A. F. Macallum, city engr.

Ont., Ridgetown—Takes bids about May 15, concrete pavements on Main St. $55,000. Prices wanted on materials. W. G. McGeorge, Queen St., Chatham, engr.

Ont., Toronto—Plans 8,000 sq.yd. asphalt pavements on Connolly St. $33,120, concrete curb and gutters. $2,530. R. C. Harris, city engr.

BIDS DESIRED

New Hampshire—May 15, by State Hy. Comn., Concord, gravel surfacing 4.77 mi. highway in Keene, Walpole, Tuftonboro and Pinkham Notch; 1.12 mi. in Candia and Peterboro, bituminous macadam; 2.42 mi. in Derry, rein.-con.; 5 x 5 rein.-con. box, 108 ft. long, in Claremont. F. E. Everett, state highway comr. Noted Apr. 4.

R. I., Wakefield—May 15, at office of G. I. Kenyon, Wakefield, constructing bituminous macadam road, here, in town of South Kingstown. G. I. Kenyon, J. B. Eldred and E. W. Maine, com. for town of South Kingstown; adv. this issue.

N. Y., Brooklyn—May 16, by E. Riegelmann, boro pres., Boro Hall, grading Bath Ave., sheet asphalt paving on 6 in. concrete Cedar Pl., Clara, East 10th, East 37th, Tapscott, Union, 70th and 78th Sts., 10th, 17th and 19th Aves.; curbing where necessary and preliminary 7 in. concrete paving in strips 16 ft. wide along the sides and for full width at intersections of cross streets of Linden Ave.

N. Y., Long Island City—May 16, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., curbing, recurbing, flagging, reflagging sheet asphalt paving Clinton and Perry Aves.; sheet asphalt paving Ditmars and 4th Aves.; grading, curbing and laying sidewalks on Locust St.

N. J., East Orange—May 14, curbing and paving 21,300 sq.yd. Eaton Pl., Oak St., Greenwood, Freeman, Tremont and Grand Aves., asphalt block, warrenite bitulithic, national or sheet asphalt on 6 in. concrete. $92,000. W. D. Willigerod, city engr.

N. J., Roselle Park (Elizabeth, P. O.)—May 18, by Mayor and Boro Council, improving Walnut St., Clay and Sheridan Aves. J. W. Higgins, 505 Chestnut St., Roselle Park and 52 Vanderbilt Ave., New York City, boro engr.; adv. this issue. Noted Apr. 5.

N. J., South Orange—May 18, by Streets & Highways Com. of Bd. Trustees, curbing and paving 4,000 ft. Prospect St., 30 and 36 ft., asphalt block, warrenite bitulithic, National or sheet asphalt on 6 in. concrete or 8 in. rein.-con. $80,000. I. Redfern, village engr. Noted May 3.

N. J., Trenton—May 18, asphalt paving Bellevue, Prospect, Mulberry, Turell and Chestnut Sts.; granite block on portion of Mulberry, Olden and New York Aves. $240,000. A. Swan, City Hall, engr. Noted Apr. 19.

Pa., Bellwood—May 15, by Boro Council, rein.-con. paving 1,430 sq.yd. Cambria St., 750 lin.ft. concrete curb. J. L. Henry, Hollidaysburg, engr.

Pa., Latrobe—May 14, by Boro. Council, paving 2,200 ft. Jefferson and Gertrude Sts., 30 ft., one course rein.-con. with concrete curb. $40,000.

Maryland—May 22, by State Rds. Comn., Baltimore, building sections of highways as follows: Contr. W-26, Washington Co., macadam; Contr. 45-A, Montgomery Co., concrete shoulders; Contrs. M-39, B-54, D-33 and Wo-28, Montgomery, Baltimore, Dorchester and Worcester Counties, concrete; Contr. BC-43, Baltimore City, sheet asphalt; Contrs. Ch-25 and SM-23, Charles and St. Marys Counties, gravel; J. N. Mackall, chn.; adv. this issue.

Md., Baltimore—May 16, by Bd. Awards, 11,725 sq.yd. concrete and 610 sq.yd. vitr. block, Contr. 235-OCNA; 42,090 sq.yd. sheet asphalt, 595 sq.yd. vitr. block, 14,300 lin.ft. steel paving guard, etc., Contr. 236-OCNA. R. K. Compton, paving comr.

Ala., Alabama City—May 15, by City Clerk, asphaltic concrete paving 1 mi. Kyle Ave., 30 ft. $35,000.

Ala., Florence — May 22, 75,000 sq.yd. paving, various types. $100,000. W. S. Eastip, mayor.

Ala., Gadsden—May 15, by City Clerk, grading and surfacing Kyle Ave., 11,720 sq.yd. asphalt, etc. $35,000.

Louisiana—May 29, by State Hy. Comn., Reymond Bldg., Baton Rouge, 10.36 mi. Project 314, Sects. A and B, Red River Parish, and 9.36 mi. Project 382, Vermillion Parish. J. M. Fourmy, ch. engr.

La., Cedar Grove—May 24 (change of date), by E. T. Archer & Co., engrs., 609 New England Bank Bldg., Kansas City, Mo., paving various streets. $100,000. Noted Apr. 12.

Tenn., Elizabethtown—May 16, by F. A. Taylor, chn. Highway Comn. Carter Co., grading, surfacing, etc., 13 mi. roads, probably limestone macadam.

Kentucky—May 29, by State Hy. Comn., Frankfort, shaping and surfacing to width of 16 and 18 ft. with waterbound macadam 7 mi. Lexington-Maysville Rd., State Project 20, Sect. L, Mason Co., 21,120 sq.yd. scarifying and reshaping, 12,507 tons crushed stone, 3,227 tons screenings; shaping 22.811 mi. roads in Pike and Union Counties, 156,556 cu.yd. earth and 115,503 cu.yd. borrow excav., etc.; shaping, surfacing to width of 18 ft. with bank gravel (unrolled), waterbound macadam or waterbound macadam surface treated 9.36 mi. Hopkinsville-Gracey Rd., Federal Aid Project 93 Christian Co.; shaping and surfacing to width of 14 ft. with river gravel type B, waterbound macadam or waterbound macadam surface treated 12.14 mi. New Castle-Carrollton Rd., State Project 46, Sect. A, Henry, Trimble and Carroll Counties; shaping and surfacing to width of 9 ft. with creek gravel, waterbound macadam or waterbound macadam surface treated 4.284 mi. Albany-Monticello Rd., State Project 27, Sect. A, Clinton Co.; shaping and surfacing to width of 16 ft. with bank gravel, waterbound macadam or waterbound macadam surface treated 13.1 mi. Dawson Springs-Earlington Rd., Federal Aid Project 97, Hopkins Co. J. S. Boggs, state highway engr.

O., Cleveland—May 16, grading, curbing and paving city hospital driveways, Mt. Overlook Ave. S.E., East 106th St., Prospect Ave. S.E. from Ontario St. S.E. to East 9th St., Prospect Ave. S.E. from East 9th to East 22nd Sts. $100,000. R. Hoffman, city engr.

O., Columbus—May 15, by W. H. Duffy, dir. Pub. Serv., grading, curbing, water services and sewer connections and paving 7,043 ft. Dunedin Rd., Capitol St., Medbrook and Irving Ways, Rush and Barth Alleys, alley west of Glen Echo Dr., alley west of Garfield Ave. and 2nd alley north of Oak St., brick, concrete and asphalt.

O., Columbus—May 17, by Franklin Co., paving 3.23 mi. Alkire Rd. 2 and Harbord Rd., 16 ft. bituminous macadam, $92,969; 2.46 mi. Norton and Rose Hill Rds., 16 ft., waterbound macadam, $50,490. C. C. Lattimer, Court House, co. surv.

Ind., Kendallville — May 22, by C. F. Orstadt, city clk., paving and curbing. H. H. Mortorff, city engr.; adv. this issue.

Ind., South Bend—May 17, by Auditor St. Joseph Co., concrete paving 55,424 sq.yd. Enders Rd. $144,135. P. R. Gillis, South Bend, engr.

Ind., South Bend—May 22, by Bd. Pub. Wks., paving 6,917 sq.yd. Huey and Kosciusko Sts., $28,360; grade, curb and walks on California and Elwood Aves., Randolph, Hastings, Johnson, Roberts, Clyde, McCartney, High, Dayton and Bowman Sts., 19,048 lin.ft. 5 ft. sidewalks, 21,112 lin.ft. curb and 26,384 cu.yd. earth excav., $37,921; 622 lin.ft. 3½ ft. sidewalk on Eldora Court $700; 1,130 lin.ft. 5 ft. sidewalk on Medora St. $850. F. J. Anderson, city engr. Noted May 3.

Mich., Cassopolis—May 14, by Cass Co. Rd. Comn., grading and gravel surfacing 7 mi. road, Cass Co. D. P. Smith, co. engr.

Mich., Marshall—May 14, by Calhoun Co. Rd. Comn., grading and surfacing 4.164 mi. road, Calhoun Co., asphalt, concrete or bituminous concrete. R. R. Cox, co. engr.

Wis., Milwaukee — May 14, by W. J. Cary, clk., Milwaukee Co., concrete surfacing 6.52 mi. Lovers Lane Rd., Wauwatosa and Rawson Aves., constructing 22 ft. concrete span bridge and widening 16 ft. concrete bridge, 70,000 sq.yd. 18 ft. concrete surfacing and 34,300 cu.yd. earth excav., etc. $200,000.

Wis., Platteville — May 22, by J. J. Stephenson, city clk., paving 10,400 sq.yd. Benson, Chestnut, 2nd, Mineral, Irving and Pine Sts., rein.-con., brick, asphaltic-macadam, warrenite bitulithic or double seal coat tarvia. $45,000. Private plans.

Kan., Kansas City—May 28, by O. K. Williamson, engr. Wyandotte Co., paving 3½ mi. roads, 16 ft., concrete or bituminous concrete

Neb., Norfolk—May 21, by S. R. McFarland, city clk., paving in Dist. 16, 35,224 sq.yd. asphaltic concrete or concrete paving, etc. Total with asphaltic concrete $99,601, with concrete $90,795. Noted Apr. 5.

Missouri—May 15, by State Hy. Dept., Jefferson City, improving 56.302 mi. roads in Macon, Andrew, Carroll, Franklin, Clay,

Streets and Roads (Continued)

Randolph, Saline, Platte, Hickory, St. Clair, Texas, Ripley, Warren and St. Genevieve Counties, 492,004 cu.yd. earth and 14,753 cu.yd. rock excav., 58,851 sq.yd. gravel surfacing and 12,475 sq.yd. concrete. B. H. Piepmeier, state highway engr. Noted May 10.

Tex., Rockwall—May 14, by Rockwall Co., 50,000 sq.yd. concrete paving, etc., on Royse City-Rockwall-Chisholm Rd. $130,000. J. A. Focht, co. engr.

Colo., Denver—May 17, by Dept. Impvts. and Parks, concrete paving 12 blocks Alley Paving Dist. 91, $27,703 and 12 blocks Alley Paving Dist. 94, $25,864, 16-20 ft. A. K. Vickery, City Hall, engr. Noted Feb. 22.

Colo., Denver—May 19, by Dept. Impvts. and Parks, concrete paving 12 blocks Alley Paving Dist. 96, $23,105 and 12 blocks Alley Paving Dist. 93, $21,469, 16-20 ft. A. K. Vickery, City Hall, engr. Noted Feb. 22.

Colo., Denver—May 22, by Dept. Impvts. and Parks, concrete paving 12 blocks Alley Paving Dist. 92, $19,318, and 12 blocks Alley Paving Dist. 95, $19,257, 16-20 ft. A. K. Vickery, City Hall, engr. Noted Feb. 22.

Calif., South San Francisco (San Francisco P. O.)—City Trustees receiving bids and opens same about May 16, improving Swift Ave., 18,000 cu.yd. embankment, 1 mi. Logan rock waste sidewalks, 7 ft. wide, wooden bridges, etc. $25,000 or more. G. A. Kneese, c/o Courthouse, Redwood City, engr.

Ont., Birchcliff—May 14, by C. E. Fraser, engr., Bank Commerce Bldg., Toronto, 4½ mi. 4½ to 6 ft. sidewalks on Ellward Blvd., Byng, Mansion, Kenworthy, Leyton, Madeline and Robinson Aves., Contr. 1; Woodrow Blvd., Preston St. and Maxwell Ave., Contr. 2; Ballahula Blvd., Kingston Rd., Cornell, Queensbury, Haig and Lakeside Aves., Contr. 3, for Scarboro Twp. $30,000.

Ont., Cobourg—May 14, by A. W. Young, city clk., 14,000 sq.yd. bitulithic surface on concrete with concrete curbs and gutters on William and George Sts. $50,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Cornwall—May 14, by J. J. Harkness, town clk., 18,260 sq.yd. bituminous concrete pavement on rein.-con., 10,100 lin. ft. concrete curb, 10,700 lin.ft. steel curb and 20,800 lin.ft. concrete gutters on 2nd St. and in Cornwall Twp. $75,000.

BIDS RECEIVED

N. Y., Auburn—J. P. Jaeckel, city mgr., City Hall, May 1, improving various streets, from F. C. Callahan, Auburn, concrete $31,319; Brayer Bros., Pearson Blk., concrete or bitulithic $192,015. Noted Apr. 19.

N. Y., Batavia—Common Council, paving (1) Bank St. (2) State St., (a) brick (b) concrete (c) asphalt block (d) bituminous macadam, incl. base (e) warrenite bitulithic macadam, from T. Holahan, 163 Lewis St., Rochester, (1a) $4.59 per sq.yd. incl. base (1d) $3.50 per sq.yd. (2a) $4.59 per sq.yd. incl. base (2d) $3.50 per sq.yd.; Rowley & O'Reilly, Lockport (street address not available), (1a) $46,784 (1b) $33,168 (1c) $43,750 (2a) $18,222 (2b) $13,184 (2c) $17,033; O. Costich Co., Rochester (street address not available), (1e) $38,498 (2e) $14,722. Noted Mar. 29.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, May 2, asphalt paving (1) Barrett St. (2) 49th St. (3) 78th St., curbing and asphalt paving (4) Ave. K, grading, curbing and granite paving (5) Kingsland Ave., grading, curbing and flagging (6) Ave. T (7) 56th St., from Borough Asphalt Co., 1301 Metropolitan Ave. (1) $13,104; Cranford Co., 52 - 9th St. (2) $10,577; Uvale Asphalt Paving Co., 1 Bway., New York (3) $9,378; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave. (4) $18,135; Greico Bros., 172 Russell St. (5) $13,354; G. M. Mandatto, 132 29th St. (6) $11,278 (7) $3,159. Noted Apr. 26.

N. J., Trenton—Mercer Co., paving 3,921 sq.yd. Greenwood Ave., granite block, from J. J. Barrett, 601 Greenwood Ave., $31,606.

Pennsylvania—State Hy. Dept., Harrisburg, May 1, constructing 30,062 ft. Application 2262, Butler and Summitt Twps., Butler Co., 22,705 ft. Route 233, Applications 2311, 2312 and 2313, Worth and Slippery Rock Twps., Slippery Rock Boro., Butler Co., and 19,683 ft. Route 265, Application 2272, North Beaver Twp., Lawrence Co., from Garvey-Weyenberg Constr. Co., 807 College Ave., Appleton, Wis., $263,155; $195,726 and $171,231 respectively; 21,312 ft. Route 271, Applications 2247 and 2251, Rome and Steuben Twps., Centerville Boro, Crawford Co., and 14,438 ft. Route 304, Application 2329, Amity Twp., Erie Co., from J. C. Devine Co., Alliance, O., $165,009 and $115,740 respectively; 23,888 ft. Route 276, Application 2306, Portage and Washington Twps., Portage, Cassandra and Lilly Boros., Cambria Co., from P. C. Azzara Constr. Co., Cresson, $273,042; 21,816 ft. Route 54, Application 2158, White Twp., Indiana Co., from M. Bennett & Sons, Indiana, $219,497; 614 ft. Route 168, Elmhurst Boro., Lackawanna Co., from H. B. Sproul Constr. Co. Inc., 218 Adams Ave., Scranton, $14,535; 31,219 ft. Route 206, West Salem and Green Twps., Jamestown Boro., Mercer Co., from S. Gamble Co., Glass St., Carnegie, $248,564; 4,652 ft. Route 238, Application 2323, Hickory Twp., Mercer Co., from Jamieson & Narlee, Fredonia, $41,737; 5,492 ft. Application 2231, Nazareth Boro., Northampton Co., from Neumeyer Bros., 1416 East 4th St., Bethlehem, $42,379; 5,875 ft. Route 332, Application 2388, Sect. 3, Spring Garden Twp., York Co., from Warren Bros. Co., 9 Cambridge St., Boston, Mass., $45,577; 19,975 ft. Route 230 Application 2177, Heildelberg Twp., York Co., from W. T. Staats, 5403 Diamond St., Phila., $127,825; 26,812 ft. Route 216, Application 2175, Sect. 3, Lower Chanceford Twp., York Co., from Freeland Constr. Co., Freeland, $237,090; 131 ft. rein.-con. plate girder bridge on Sta. 420, Route 89, Pike Twp., Clearfield Co., from Mason & Savage, Warren, $22,656. Noted Apr. 12.

Maryland—State Roads Comn., Baltimore, May 1, gravel surfacing 17,200 sq. yd. Contr. P-36, Prince George Co., from H. H. Schmidt, 27th and Falls Rds., Baltimore, $19,497; concrete surfacing 19,800 sq.yd. Contr. B-55, Baltimore City, from P. F. Reddington & Son, 2 East Lexington St., Baltimore, $69,433, 12,500 sq.yd. Contr. Wi-24, Wicomico Co., from P. D. Phillips & Bro., Salisbury, $31,684; 8,100 tons bituminous macadam surface course, 8,800 tons rein.-con. base course, Contr. W-24, Washington Co., from Bester-Long Co., Hagerstown, $120,373; 29,700 sq.yd. bituminous surface course, 36,500 sq.yd. 6 in. concrete base course Contr. Bc-45, Baltimore City, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., Baltimore, $146,435. Noted Apr. 19.

Md., Baltimore—Bd. Awards, asphalt paving 9,300 sq.yd. St. Paul St., and 21,010 sq.yd. Contr. 234NA, Baltimore City, from P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R.R., $49,367 and $91,136 respectively; 16,270 sq.yd. Contr. 233NA, Baltimore City, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $66,253 for 4 in. and $73,573 for 6 in. Noted Apr. 26.

S. C., Columbia—Richland Co. topsoiling, etc., 6.9 mi. State Route 3, Federal Aid Project 210, 52,886 cu.yd. common excav., 19,616 cu.yd. gravel, etc., from J. H. H. Ashley, Honea Path, $29,356.

Fla., Sebring—Highlands Co., from McDonald Constr. Co., Tampa, (street address not available), paving 33 mi. from Polk Co. line to Hicoria, 371,920 sq.yd. asphalt oil at $0.28 per sq.yd., 371,920 sq.yd. bituminous macadam base $0.73; 11 mi. road from Hicoria to Glades Co. line, 58,080 sq.yd. asphalt oil at $0.29, 59,080 sq.yd. bituminous macadam $0.73. Noted Apr. 19.

O., Akron—W. F. Peters, dir. Pub. Serv., Apr. 30, grading, laying sidewalks and paving (1) West South St., 3,050 lin.ft. 6 x 18 in. stone curb, 400 lin.ft. brick gutter, 14,630 sq.ft. 4 in. cement sidewalk (a) 4,650 sq.yd. vitr. brick on 6 in. concrete, engrs. est. $37,615, or (b) 2,250 sq.yd. asphalt, engrs. est. $37,260, (2) Storer Ave., 8,060 lin.ft. 6 x 18 in. stone curb, 2,050 sq.yd. brick gutter, 30,990 sq.yd. 4 in. cement sidewalk, 11,300 cu.yd. earth excav., (a) 12,450 sq.yd. vitr. brick on 6 in. concrete, engrs. est. $93,722, (b) 10,400 sq.yd. asphalt $92,462. (3) Delia Ave., 2,885 lin.ft. 6 x 18 in. stone curb, 775 lin.ft. brick gutter, 200 sq.ft. sidewalk, 2,100 cu.yd. earth excav., (a) 5,000 sq.yd. vitr. brick on 6 in. concrete, engrs. est. $30,360 (b) 4,225 sq.yd. asphalt, $29,325, (4) Bishop St., 3,440 lin.ft. 6 x 18 in. stone curb, 800 sq.yd. brick gutter, 81,700 sq.yd. 4 in. cement sidewalk, 3,000 cu.yd. earth excav., (a) 6,015 sq.yd. vitr. brick on concrete, engrs. est. $42,923, (b) 4,325 sq.yd. asphalt, $40,954, (5) Bates and Christie Sts., 7,270 sq.ft. 4 in. cement sidewalk, 1,300 cu.yd. earth excav., 1,750 sq.yd. vitr. brick on 6

ROAD WORK—BALTIMORE, MD.

Bids were opened by State Rds. Comn., Garrett Bldg., Apr. 10, for contructing 2.7 mi. road from end of Contr. S-15 to St. Stephens, Contr. S-17, Somerset Co., (A) Hannaman-Burroughs Co., Salisbury (awarded contract); (B) Roberts Paving Co., Vickers Bldg.; (C) P. D. Phillips & Bro., Salisbury. The unit bids were as follows:

	A	B	C
6,700 cu.yd. excavation	$1.60	$1.60	$2.00
1,200 cu.yd. borrow	1.50	1.00	1.50
24,500 sq.yd. concrete surfacing	3.25	3.45	3.42
25 cu.yd. class A concrete	30.00	27.00	30.00
204 cu.yd. class C concrete	30.00	26.00	28.00
2,272 lb. plain steel reinforcing bars	.10	.10	.10
478 lin.ft. 12-in. corrugated metal pipe	2.00	2.00	2.00
60 lin.ft. 18-in. corrugated metal pipe	3.00	2.50	2.50
120 lin.ft. 24-in. corrugated metal pipe	4.50	3.50	3.25
500 l.n.ft. timber piles	.75	.30	1.00
Extended totals	$101,293	$104,327	$107,675

ROAD WORK—OREGON

Bids were opened by State Highway Comn., March 28, for constructing Eugene-Goshen section of Pacific Highway, Lane Co., (A) Force & Currigan, 33rd and Halsey St., Portland; (B) G. F. Pyle, Eugene; (C) Warren Constr. Co., 289 East Salmon St., Portland. The unit bids were as follows:

	A	B	C
3100 sq.yd. preparation of subgrade	$0.10	$0.05	$0.05
250 cu.yd. broken stone or gravel sub-base	2.25	2.50	2.20
11,200 sq.yd. concrete shoulders	2.70	3.00	2.75
5000 cu.yd. bituminous binder	3.00	3.00	3.00
42,500 sq.yd. bituminous concrete surface	1.01	.98	1.30
2500 sq.yd. 5 in. bituminous pavement	1.75	2.00	2.25
1250 sq.yd. preparation of sub-grade	.15	.05	.05
250 cu.yd. bituminous base	7.00	4.25	4.06
1000 sq.yd. bituminous concrete surface	1.75	1.60	1.50
30 cu.yd. broken stone or gravel shoulder	5.00	4.00	5.50
1130 lin.ft. shoulder combination	.05	.05	.06
Extended totals	$100,610	$102,226	$113,580

ROAD WORK—OREGON

Bids were opened by State Highway Comn., March 27, for constructing Otter Rock section of Roosevelt Highway, Lincoln Co., (A) Hetrick, Klein & Gardner, Portland; (B) A. D. Kern, Exch. Bldg.; (C) G. F. Atkinson, Chamber of Commerce Bldg. Contractors all of Portland. The unit bids were as follows:

	A	B	C
Clearing and grubbing (lump sum)	$17,000.00	$13,500.00	$20,000.00
221,000 cu.yd. excavation, (not classified)	.50	.66	.70
484,000 sta. yd. overhaul	.05	.05	.05
1550 lin.ft. 12-in. plain concrete pipe	2.40	2.25	2.00
230 lin.ft. 18-in. reinforced-concrete pipe	4.15	4.00	3.50
360 lin.ft. 24-in. reinforced-concrete pipe	5.00	5.50	4.50
50 cu.yd. class C concrete	35.00	30.00	40.00
5.7 acres extra clearing	100.00	200.00	500.00
140 lin.ft. 3x3 cedar culverts	8.00	11.00	7.00
400 lin.ft. 4x4 cedar culverts	12.00	19.00	8.00
104 lin.ft. 6x6 cedar culverts	18.00	30.00	18.00
514 lin.ft. 8x8 cedar culverts	23.00	40.00	24.00
Extended totals	$181,081	$226,998	$228,563

Streets and Roads (Continued)

in. concrete, engrs. est. $12,654; resurfacing (6) East Market St., 240 sq.yd. vitr. brick, 3,450 sq.yd. asphalt, 500 tons asphaltic binder, engrs. est. $13,249, from DiFoti Constr. Co., 72 Furnace St., (1a) $39,602 (1b) $39,130; McAlonan Bros., 197 West Buchtel Ave., (2a) $96,144 (2b) $95,199 (4a) $42,435 (5) $13,232; T. E. McShaffrey Constr. Co., 171 South Forge St., (3a) $31,-007 (3b) $27,761 (4b) $40,277; Columbus Asphalt Paving Co., 304 Buckeye Bldg., (6) $10,681. Noted Apr. 19.

O., Bay Village—Grading and laying 128,000 sq.ft. (a) concrete (b) stone sidewalks, West Lake Rd., 10,000 cu.yd. earth excav., from V. Q. Galier, Builders Exch., Cleveland, (a) $46,000; Cleveland Stone Co., 1836 Euclid Ave., Cleveland, (b) $49,000.

O., Cleveland—From Baldwin Bros., 4500 Euclid Ave., improving Cypress Ave., 5,970 lin.ft. stone curb and 4 in. tile drain gutter, 4,850 cu.yd. earth excav., 9,055 sq.yd. vitr. brick on concrete, $51,652, East 29th St., 2,100 cu.yd. grading, $4,749; from Roehl Bros. Paving & Constr. Co., West 25th St. and Clark Ave., Bosworth Rd., 8,000 cu.yd. excav., 15,760 sq.yd. brick on concrete, 5,900 lin. ft. stone curb and 4 in. tile drain gutter, $95,079, West 41st St., 800 sq.yd. brick on concrete, $3,266, Behrwald Ave., 1,500 cu.yd. excav., 2,925 sq.yd. brick on 6 in. concrete, 1,930 lin.ft. stone curb and 4 in. tile gutter, $17,890, Tate Ave., 5,350 cu.yd. excav., 7,640 sq.yd. brick on 6 in. concrete, 5,020 lin.ft. stone curb and 4 in. tile drain gutter, $47,970, Mayview Ave., 1,700 cu.yd. excav., 3,400 sq.yd. brick on 6 in. concrete, 2,200 lin.ft. stone curb and 4 in. tile drain gutter, $20,547; from Rieley Bros., The Arcade, Forest Court, 515 sq.yd. brick on 6 in. concrete, $3,160; from H. G. Herring, Pavers Exch., Society for Saving Bldg., London Rd., 5,500 cu.yd. excav., 7,410 sq.yd. brick on 6 in. concrete, 4,100 lin.ft. stone curb and 4 in. tile drain gutter, $53,981; from River Constr. Co., 2402 Mapleside Rd., East 76th St., 1,300 cu.yd. excav., 1,860 sq.yd. brick on 6 in. concrete, 1,300 lin.ft. stone curb and 4 in. tile drain gutter, $13,708; from Enterprise Paving & Constr. Co., 8444 Bway, Linton Ave., 1,100 cu.yd. excav., 2,500 sq.yd. brick on 6 in. concrete, 1,580 lin.ft. stone curb and 4 in. tile drain gutter, $16,613.

Ind., South Bend—Bd. Pub. Wks., May 1, 955 sq.yd. Miner St., concrete, from Hoban & Roach, 502 East Madison St., $2,623; 342 sq.yd. new asphalt and 4,213 sq.yd. resurfacing, etc., Colfax Ave., (1) Trinidad (2) Mexican, from White Constr. Co., Merchants Bank Bldg., (1) $10,663 (2) $9,980; resurfacing Main St., (a) incl. resurfacing with brick along car tracks (b) incl. new base for brick along car tracks, (1) Trinidad (2) Mexican, from White Constr. Co., Merchants Bank Bldg., (a1) $8,034 (a2) $7,501 (b1) $8,168 (b2) $7,634; 1,739 sq.yd. Yukon Ave., asphalt, (1) Trinidad (2) Mexican, from Williston Constr. Co., Citizens Bank Bldg., (1) $5,700 (2) $5,422. Noted Apr. 26.

Mich., Detroit—Paving Brentwood Ave., from G. R. Cooke, 1260 Penobscot Bldg., $31,888; Six Mile Rd., Eastlawn, Genessee, Livernois, Linsdale, Navy and Wager Aves. from Detroit Asphalt Paving Co., 20 McGraw Bldg., $92,332, $12,832, $24,479, $134,253, $6,181, $74,445, and $17,331 respectively; Casper and Glendale Aves., from Cleveland Trinidad Paving Co., 402 Hammond Bldg., $24,173 and $45,196 respectively.

Minn., Minneapolis—Bd. Park Comrs., May 1, paving and curbing Lake of the Isles Blvd. and south and west shores of Cedar Lake, St. Anthony Blvd. and Minnehaha Parkway, 23,500 sq.yd. colored cement walk and 101,000 lin.ft. colored concrete curb, from Chernus Constr. Co., 604 Boston Blk., $1.26 per sq.yd. for walk, Nelson-Endbloom Constr. Co., 917 Plymouth Bldg., $0.45 per lin.ft. for curb.

Calif., Bakersfield — Grading, curbing, guttering and paving with 1½ in. warrenite bitulithic on 3½ in. asphaltic concrete portions 20th, 21st and R Sts., from J. A. Dowling, Call Bldg., San Francisco, $76,-664. Noted Mar. 29.

Calif., Hawthorne—Improving Balona St., oil screenings, from H. Wigman, Hermosa, $34,865.

Calif., Lodi—Grading, curbing, guttering and paving portions Hutchins and Walnut Sts., 152,440 sq.ft. grading, 139,452 sq.ft. 1½ in. warrenite on 2½ in. asphaltic concrete, etc., from Clark & Henery Constr. Co., 38 South Sutter St., Stockton, $34,505.

Calif., Redwood City—Grading, concrete curbing, guttering and paving streets in Redwood Highlands, 154,445 sq.ft. oil macadam pavement, etc., from Tieslau Bros., 2819 Grove St., Berkeley, $35,868.

CONTRACTS AWARDED

Massachusetts—State Hy. Dept., Boston, bituminous macadam paving 3.75 mi. road, 18-20 ft., in Burlington between Woburn and Billerica, to L. Carchia, West Roxbury (Boson P. O.), $131,919.

Conn., Hartford—Bd. Contract & Supply, to E. Balf & Co., State St., paving 6,100 ft. Park St., 3 in. asphalt on 6 in. base, engrs. est. $156,000; 2,613 ft. Broad and Webster Sts., 40 ft. and 30 ft. respectively, 3 in. asphalt on macadam, engrs. est. $42,000; 3,285 ft. Washington and Ann Sts., 41 ft. and 10 ft. respectively, 3 in. asphalt on 6 in. concrete, engrs. est. $65,-000; patching 10,000 sq.yd., engrs. est. $26,000. Noted Apr. 19.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to Borough Asphalt Paving Co., 1301 Metropolitan Ave., curbing and asphalt paving East 7th St. $6,409, East 19th St. $14,066, East 22nd St. $10,-622, Louisiana Ave. $5,954, asphalt paving East 34th St., $6,470, Bedford Ave. $4,951, Carroll St. $9,888; to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., curbing and asphalt paving 8th Ave. $22,703, asphalt paving 58th St. $17,110; to F. Persicano, 350 Fulton St., grading and flagging 13th Ave. $12,938; to T. B. Scott, 671 Halsey St., grading and flagging 40th St. $3,699, grading, curbing and flagging Utica Ave. $2,183, West 12th St. $3,856; to Cranford Co., 52 9th St., asphalt paving 56th St. $8,763, 82nd St. $8,677, 85th St. $8,174, East 7th St. $9,782, 55th St. $8,353; to B. M. Mandatto, 139 29th St., grading, curbing and flagging East 15th St. $16,747; to Simonelli & Son, Inc., 26 Conselyea St., curbing and laying cement sidewalks on West 32nd St. $2,230; to Uvalde Asphalt Paving Co., 1 Bway., New York, asphalt paving East 17th St. $21,037; to Cleveland Trinidad Paving Co., Flushing, asphalt paving Ave I $17,311. Noted Apr. 12 and 19.

N. Y., New York—J. Miller, pres., Manhattan Boro, Municipal Bldg., sidewalks on north and south sides of 108th St., to Kramer & Leedecke, 114 East 52nd St., $1,661; regrading, curbing, recurbing, flagging, reflagging and sheet asphalt paving roadway of Haven Ave., to Asphalt Constr. Co., 208 Bway., $8,260; widening and repaving portion Canal St., and curbing, recurbing and paving, etc., Wadsworth Terrace, both granite block, to D. J. McCarthy, 88 Audubon Ave., $12,405 and $18,462 respectively. Noted May 3.

N. Y., Plattsburg—Clinton Co. will construct 6 mi. Jarvis Corners-Pwasileyville Rd., subbase gravel top, $30,000; ½ mi. Cumberland head, subbase gravel $2,500, 2½ mi. Siota Chazy Rd., macadam $22,000, 4 mi. Lyon Mt.-Chazy Lake Rd., 10 ft., macadam $32,000, ½ mi. Saranac-Rousha Rd., crushed stone waterbound $2,500, ½ mi. Barnes School house-Chellis store, gravel $2,500, ½ mi. Lyon Mt.-Chat Lake Rd., gravel $2,500 and ½ mi. Altona-Woods Falls Rd., gravel $2,500, by day labor under supervision of I. E. Featherstone, Jarvis Corners, co. supt.

N. Y., Troy—Bd. Contr. & Supply, repairing asphalt pavements, to Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., $3.10 per cu.yd. and $13 per ton for binder, total cost to exceed $25,000, concrete paving 2nd Ave., to Belmar Contg. Co., Inc., 401 Proctor Bldg., $157,057. Noted Mar. 1.

Pennsylvania—State Hy. Dept., Harrisburg, Route 216, Application 2175, York Co., 23,566 cu.yd. excav., 46,706 sq.yd. rein.-con., to Comerford Constr. Co., 125 South 5th St., Phila., $212,622; Application 2252, Northampton Co., 2,619 cu.yd. excav., 9,733 sq.yd. rein.-con., to J. E. and J. H. Mills, 325 Drake Bldg., Easton, $38,656; Application 2225, Northampton Co., 2,701 cu.yd. excav., 7,708 sq.yd. rein.-con., to M. Miller & Son, 246 - 9th St., Northampton, $26,-614; Route 271, Applications 2182 and 2183, Crawford Co., 1,920 cu.yd. excav., 41,308 sq.yd. rein.-con., to Smethport Constr. Co., Carlton, $170,402; Route 66, Applications 1939 and 2168, Clarion Co., 10,580 cu.yd. excav., 23,435 sq.yd. rein.-con., to W. H. Hileman Constr. Co., 217 1st Natl. Bank Bldg., New Kensington, $119,199; Route 214, Application 2233, Clarion Co., 16,269 cu.yd. excav., 24,931 sq.yd. rein.-con., to F. S. Wilson, Kittanning, $162,057; Route 204, Application 1942, Beaver Co., 6,581 cu.yd. excav., 16,770 sq.yd. rein.-con., to T. J. Strickler, 508 Church St., Huntingdon, $63,388; Route 200, Application 2124, Crawford Co., 33,461 cu.yd. excav., 61,432 sq.yd. rein.-con., to Fort Pitt Constr. Co., 207 Martin Bldg., Pittsburgh, $328,978; Applications 2010 and 2106, Mercer Co., 22,764 cu.yd. excav., 51,357 sq.yd. rein.-con., and Route 85, Crawford Co., 11,871 cu.yd. excav., 60,269 sq.yd. rein.-con., to H. W. Horst Co., Horst Bldg., Rock Island, Ill., $236,016 and $248,154 respectively. Noted Apr. 12.

Pa., Pittsburgh—Regrading, repaving and recurbing Progress, Heinz and Chestnut Sts., Gazena and Bolin Ways, 1,122 sq.yd. vitr. brick, 5,820 sq.yd. sheet asphalt, 2,750 sq.ft. concrete sidewalk and 3,350 lin.ft. concrete curb, to T. Cronin Co., South 18th St., $52,379.

Maryland—State Rds. Comn., concrete paving 4 mi. Philadelphia Rd., 15 ft. 6 in., Contr. H-27, Harford Co., to D. H. Whitman, Hagerstown, or Hotel Rennert, Baltimore, $124,300; 2.1 mi. Dayton and Simpsonville Rds., Contr. Ho-16, to Robertson Bros., Vickers Bldg., Baltimore, $63,775.

W. Va., Welch—McDowell Co. grading 7.4 mi. road from Bradshaw to Grundy, Sandy River Dist., to Danville Contg. Co., Danville, $65,825; hard surfacing 14½ mi. road from Thorp to Jenkinjones and Jeanette to Leckie, Adkins Dist., to Baldwin & Jennings, Gary, $340,000.

Fla., Jacksonville—To Jacksonville Concrete Products Co., 530 Riverside Ave., 2,150 sq.yd. concrete sidewalks at $1.96 per sq.yd., 20,763 sq.yd. tile sidewalks at $1.62. Noted Mar. 29.

Alabama—State Hy. Dept., Montgomery, grading and surfacing with sand clay and gravel 11.797 mi. road from Barbour Co. line to Abbeville, Henry Co. and 13.537 mi. road from Clayton to Dale Co. line, Barbour Co., to Nixon & Phillips Constr. Co., Lineville, $68,652 and $67,384. Noted Mar. 22.

La., Colfax—Paving 5th St. from Scott to St. Ann Sts., vertical fibre brick on concrete, also storm sewer in 7th St., to A. E. Perry, Colfax, $150,400.

Tenn., Manchester—Coffee Co. Rd. Comn. to Smith-Pitts & Sons, Manchester, grading 14.47 mi. road from Beach Grove to Manchester, 41,527 cu.yd. common excav. $0.43, 15,000 cu.yd. solid rock excav. $1.65, 25,000 cu.yd. borrow $0.43, etc., total $63,-911, 7.51 mi. road from Hillsboro to Manchester, 33,750 cu.yd. common excav. $0.43, etc., total $19,312; to J. W. McLaughlin, Manchester, grading 7.16 mi. road from Manchester to Summitville, 25,493 cu.yd. common excav. $0.40, etc., total $18,351. Noted Apr. 19.

O., Cleveland—Bd. Educ., East 6th St. and Rockwell Ave., grading, cement sidewalks, seeding, sodding and landscape work at Audubon, Lafayette, Mt. Auburn, Rickoff and Warner Rd. Schools, to V. Q. Galier, Builders Exch., $44,670; masonry work, to A. MacDougall Co., Irene Ave., $24,351. Noted Apr. 26.

O., Euclid—Grading, curbing and paving 19,310 sq.yd. on 8 streets, asphalt, to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $102,877. Noted May 3.

O., Lakewood (Cleveland, P. O.)—Asphalt paving 2 streets, to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $28,627; 1 street, to W. E. McHugh, Pavers Exch., Society for Savings Bldg., Cleveland, $21,830.

O., Marietta—Bd. Control, asphalt paving 2nd St., to Peters and Rovegno, Marietta, $35,457. Noted Mar. 22.

O., Wauseon—Fulton Co., grading and graveling 3.18 mil. Darby-Ottokee Rd. Impvt. 93, 6,271 cu.yd. earth excav., engrs. est. $15,623 and 1 mi. Lytton Rd., 2,240 cu.yd. earth excav., $6,847, both 10 ft. wide, to H. G. Flickinger, Delta, $12,749 and $6,583 respectively; 0.62 mi. Zone-Southern Impvt. 102, $5,725 and 1 mi. Spiess-Handy Corners Impvt. 101, 1,906 cu. yd. earth excav., $7,886, both 12 ft. wide, to A. J. Quillet and H. D. Bernath, R. F. D. 6, $4,283 and $5,132 respectively; grading and paving 1.25 mi. Stryker-Neapolis Rd. Impvt. 99, 12 ft., 2,936 cu.yd. earth excav. and 9,285 sq.yd. waterbound macadam, $17,608, to A. A. Langenderfer, 319 Spitzer Bldg., Toledo, $14,637.

Ind., Kokomo—Concrete paving, 18,726 sq.yd. Lafontaine St., to Druecker Paving Co., Kokomo, $48,690. Engrs. est. $53,723.

Ind., Logansport—Cass Co., paving 5 mi. Gordon Rd., 18 ft., to D. A. Hyman, Logansport, $37,200. Noted Apr. 19.

Ind., South Bend—Bd. Pub. Wks., to H. N. Barnes, 1026 North Johnson St., paving 4,832 sq.yd. Eckman St., bituminous concrete, etc., $24,444, engrs. est. $30,306, 16,834 lin.ft. of 5 ft. sidewalks, etc., on Washington, McKinley, Jacob, Turnock, Harriet, Otsego Sts., Lasalle and Colfax Aves., $37,069; to H. L. Davis & Sons, 1111 Sorin St., 4,220 lin.ft. sidewalks, etc., Brookfield and College Sts., $14,484; to F. L. Parr, 1013 Altgeld St., 1,514 lin.ft. Miami St., $2,013, engrs. est. $2,117; to F. J. Murray, 216 North Lafayette St., 1,252 lin.ft. sidewalks, etc., on Sancome St., $3,262.

Mich., Dearborn—H. B. Knauff, village clk., 19,000 sq.yd. concrete pavements on Adeline, Francis, Beech, Lapham and Nona

Streets and Roads (Continued)

Aves., to Otis Cement Constr. Co., 806 Hammond Bldg., Detroit, $71,162. Noted Apr. 12.

Mich., Grosse Pointe (Detroit, P. O.)—Grading and paving 18,350 sq.yd. Neff Rd., sheet asphalt on 6 in. concrete with concrete curb, to G. R. Cooke, 1260 Penobscot Bldg., Detroit, $100,000.

Mich., Grosse Pointe Farms (Detroit P. O.)—Grading and paving 6,500 sq.yd. Lake Dr., 9 in. concrete with concrete curbs and gutters, to R. R. Moran, Grosse Pointe Farms, $27,000.

Ill., Waukegan—Lake Co., 6 in. concrete paving Sect. 28 Hainesville-Round Lake Rd., to G. Wade, Kenosha, Wis., $54,674. Noted Apr. 5.

Wis., Milwaukee—Asphalt paving, etc., to Badger Constr. Co., 97 Wisconsin St., 3,329 sq.yd. Clarke St. $15,728, 1,676 sq.yd. 1st Ave. $7,636, 1,486 sq.yd. 47th St. $3,250, 17,130 sq.yd. 4th St. $64,549, 3,499 sq.yd. Kinnickinnic Ave. $7,517, 4,821 sq.yd. Windlake Ave. $15,547.

Wis., Milwaukee—Concrete paving, etc., to Czerwinski Constr. Co., 376 16th Ave., 934 sq.yd. California Ave. $3,081, 3,953 sq.-yd. Ellen St. $12,597, 2,521 sq.yd. Melvina St. $8,465; to A. E. Retzloff, 948 4th St., 1,160 sq.yd. Morton Pl. $5,096; to Clayton Constr. Co., 397 Farwell Ave., 1,200 sq.yd. Northwestern Ave. $3,878.

Wis., Superior—Concrete paving 1,900 ft. 21st St. from Baxter to Grand Aves., 24 ft., to V. Nelson, 2002 Maryland Ave., $28,866.

Ia., Bettendorf—Vibrolithic concrete paving 7,210 sq.yd. Main and 1st Sts., to Central Eng. Co., 809 Putnam Bldg., Davenport, $27,000.

Ia., Carroll—For 12,818 sq.yd. 8 in. concrete paving, City Project C-19, to McLaughlin & Sons, Mankato, Minn.

Ia., Nevada—Grading and paving extensions of Lincoln Highway into city, to Empire Constr. Co., 308 Flynn Bldg., Des Moines, 9,100 sq.yd. concrete paving $2.79, 1,400 cu.yd. excav. $0.50. Noted Apr. 12.

Ia., Sigourney — Keokuk Co., grading 15.42 mi. primary road northeast of here, to Littig Constr. Co., 1st National Bank Bldg., Davenport, 59,618 cu.yd. excav. $23,148; T. Ryan & Sons, Missouri Valley, 260,372 cu.yd. excav., $82,970. Noted Apr. 19.

Minn., Redwood Falls—Redwood Co., Job 2301, State Rd. 3, 65,000 cu.yd. excav., to J. Cosgrave, Algona, Ia., $0.27 per cu.yd.; Job 2302, State Rd. 3, 86,000 cu.yd. excav., to M. Hirsch, Wabasso, $0.24; Job 2303, State Rd. 10, 22,000 cu.yd. excav., to B. J. Schmitz, Wabasso, $0.26; Job 2304, State Rd. 2, 20,000 cu.yd. excav., to H. Leopold, Walnut Grove, $0.27. Noted Apr. 19.

Mont., Great Falls—Cascade Co., gravel surfacing Cascade-Ulm Rd., to Fitzgerald & Staunton, 114 1st Ave., S., $80,366; 2 concrete bridges, to McGuire & Blakeslee, Great Falls, $10,657. Noted May 3.

Missouri—State Hy. Dept., Jefferson City, improving 5 mi. road and 3.655 mi. road from Fulton to Jefferson City, Callaway Co., to T. Ryan & Sons, Missouri Valley, Ia., $22,572 and $13,363 respectively; 3.171 mi. road from North Kansas City to Excelsior Springs, 18 ft., Clay Co., concrete, to Highway Constr. Co., Webb City, $97,197; 2.898 mi. road from Fisk to Dexter, 18 ft., Stoddard Co., concrete, to Service Constr. Co., Poplar Bluff, $104,738. Noted Apr. 12.

Mo., Joplin—Paving 1.75 mi. East 7th St., 6 ft., 1 course concrete, to V. E. Koch, 419 Joplin St., $14,000; 1.75 mi. East 7th St., 18 ft., will be done by Joplin Rd. Dist.

Mo., Kansas City—Paving 15th St., 32,-200 sq.yd. rock asphalt, to M. R. Amerman, 248 North Market St., Wichita, Kan., $2.58 per sq.yd.

Mo., Richmond Heights (St. Louis, P. O.)—H. Prettyman Co., United Home Bldg., St. Louis, 200,000 sq.ft. concrete sidewalks and street paving in Pennsylvania Park subdivision, here, to Hartmann Constr. Co., Odd Fellows Bldg., St. Louis. Engrs. est. $50,000. Noted May 3.

S. D., Yankton — Paving 10,000 sq.yd. Locust St., vibrolithic concrete, to M. L. Flinn Paving Co., 218 Grain Exch. Bldg., Sioux City, Ia., $2.23 per sq.yd. Noted Apr. 12.

N. D., Fargo—For 40,000 sq.yd. bitulithic paving on College St., 9th Ave. N. and 10th St., to Birch & Sons, Fargo, $47,671, $53,353 and $37,824 respectively. Noted Apr. 12.

Tex., Hondo—Medina Co. grading and graveling 7.55 mi. highway through D'Hannis Precinct, part of Old Spanish Trail, to Miller & Farmer, Hondo, $49,888.

Tex., Marshall—Harrison Co. resurfacing 23.41 mi. Jefferson Highway 11, east and west of here, inverted penetration, to J. F. Dexter, 1918 Bennett St., Dallas, $35,000. Noted Apr. 19.

Colorado—State Hy. Dept., Denver, gravel surfacing 2.881 mi. Project 223 A, Grand Co., to H. Shore, Steamboat Springs, $27,-627, 1.853 mi. Project 211, Rio Blanco Co., to Hinman Bros., Kremmling, $31,314; crushed rock surfacing 3,505 mi. Project 81 A, Jefferson Co., to H. C. Lallier Constr. Co., Hudson, $33,878; grading 2.776 mi. Project 705, Montrose Co., to G. F. Wear & Co., Delta, $10,089; 950 ft. timber bridge and approaches over Cherry Creek, Arapahoe Co. to Colorado, Bridge & Constr. Co., Denver Gas & Electric Bldg., Denver, $12,-088; timber trestle bridge over Box Elder Creek, Adams and Arapahoe Counties, to A. R. Mackey, Sterling, $14,782. Noted Apr. 12.

Idaho—State Hy. Dept., 202 Pioneer Bldg., Lewiston, grading and gravel surfacing 3.4 mi. Federal Aid Project 64-B, Shoshone Co., 17,980 cu.yd. earth, 17,922 cu.yd. solid rock and 5,222 cu.yd. loose rock excav., 6,034 cu.yd. crushed rock, etc. to Ryberg-McHugh Co., 1315 State St., Boise, $69,133. Noted Apr. 5.

Nevada—State Hy. Dept., Carson City, constructing road from Crystal to West Slope of Mormon Mesa, Clark Co., Contr. 75, to Dodge Bros. and Dudley Contg. Co., Fallon, $185,182.

Wash., Kelso—Paving Improvement Dist. 45, Cowlitz Ave. et al., 2 in. bitulithic on 4 in. crushed rock base, to United Contg. Co., North West Block Bldg., Portland, Ore., $55,323.

Wash., Seattle—Clearing right of way for 100 mi. transmission line from Gorge Creek plant of Skagit project to Seattle, to Beseloff & Brice, 4234 Densmore Ave., $38,880. Engrs. est. $39,000.

Wash., Seattle — Repaving Union St., LID 3571, concrete, to J. L. Smith, Pioneer Bldg., $40,548. Engrs. est. $41,187.

Wash., Walla Walla—Grading and surfacing two course crushed rock, 7 in. deep, Permanent Highway 28, Lower Waitsburg Rd., 36,078 cu.yd. earth excav., 3,895 cu. yd. borrow, 15,423 cu.yd. crushed rock, to H. L. Wilson, Walla Walla (street address not available), $52,792. Engrs. est. $55,000.

Ore., Portland—Paving East 9th, East 30th, East 69th, East 81st, Beach and Jersey Sts., Union Ave., 33rd Ave. S. E. and Roselawn Ave. S. E., 2 in. bitulithic concrete on 4-6 in. crushed rock, to Municipal Paving Plant, City Hall, $57,246. Noted Apr. 19.

Calif., Hanford—Grading, curbing, guttering and paving portion Ivy St., 105,483 sq.ft. grading, 92,622 sq.ft. 1½ in. warrenite on asphaltic concrete, etc., to California Constr. Co., Mattei Bldg., Fresno, $32,932. Noted May 3.

Calif., Long Beach — Improving various streets in Belmont Shore Project, 870,746 sq.ft. 5 in. concrete, 33,610 lin.ft. concrete curb, 168,573 sq.ft. cement walks, etc., to Two Miracle Concrete Co., Ford Bldg., Great Falls, Mont., $486,000. Noted Apr. 26.

Calif., Madera—To Thompson Bros., Divisadero and G Sts., Fresno, grading, concrete curbing, guttering and bituminous paving Yosemite Ave., $38,379; B and 6th Sts., $35,437. Noted May 3.

Calif., Merced—Merced Co. grading and paving Dist. 5, 43,557 lin.ft. sub-grade, 18,712 ft. lumber and 525,904 sq.ft. rock screenings, to Merced Concrete Pipe Co., 16th and H Sts., $49,750. Noted May 3.

Calif., San Bernardino—San Bernardino Co. grading and paving 5 mi. Bear Lake Rd., 8 in. oil macadam, to H. Lienau, 420 Brookside Ave., Redlands, $149,500. Noted Apr. 26.

Calif., San Francisco—Bd. Pub. Wks., grading, retaining wall, etc., on Telegraph Hill Blvd., to L. J. Cohn, 180 Jessie St., $23,238. Noted Apr. 12.

Calif., Santa Ana—Orange Co., paving Richfield Rd., 5 in. asphaltic concrete on 4 in. gravel, to S. Finley, Santa Ana, $38,500. Noted Apr. 26.

Ont., Chatham—Will resurface with asphalt 34,000 sq.yd. Dover, St. Clair, Union and Park Sts., by day labor. $60,000. C. H. R. Fuller, city engr.

Ont., Oshawa — Paving 6,000 sq.yd. Arthur and Bruce Sts. from Drew to Ritson Rd., Division St. from King to Brock Sts., asphalt on concrete, to Standard Paving Co., Central Chambers, Ottawa. Engrs. est. $30,000.

Ont., Guelph—Resurfacing 38,000 sq.yd. asphalt pavement, to Constricting & Paving Co., Confederation Life Bldg., Toronto, $1.86 per sq.yd. 3 in. surface, $1.54 for 2 in. surface.

Industrial Work

PROPOSED WORK

Mass., Gardner—Central Oil & Gas Stove Co., 205 School St., had plans prepared by G. A. Johnson, archt. and engr., Main St., Worcester, and soon takes bids 3 story, 50 x 100 ft. manufacturing building and machine shop, brick and steel, plain foundation. To exceed $40,000.

Conn., East Hartford—E. Cataldi having plans prepared by D. A. Guerriero, 1029 Main St., Hartford, 3 story, 30 x 50 ft. factory, brick and steel, plain foundation. Burnside Ave. $45,000. Address architect.

Conn., East Hartford—D. Ravellese, Village St., having plans prepared by J. E. Marchetti, archt. and engr., 721 Main St., Hartford, 1 story, 60 x 120 ft. garage with 50 x 100 ft. ell, brick and steel, plain foundation, 6 Pleasant St. $65,000.

Conn., Hartford—Capitol Furniture Co., 148 Temple St., having plans prepared by D. A. Guerrion, 1029 Main St., 2 story, 40 x 80 ft. storehouse, rein.-con., plain foundation, 154 Temple St. $40,000.

Conn., Hartford—Herman Gross & Sons, 288 Pleasant St., having plans prepared by Berenson & Moses, 30 Allyn St., 3 story, 40 x 140 ft. warehouse, brick, plain foundation, Market St. $70,000.

Conn., Manchester—E. E. Hilliard Co., Buckland St., had plans prepared 2 story, 80 x 140 ft. factory, brick, plain foundation, Buckland St. $50,000. Private plans.

Conn., Plainville — H. C. Baum, New Britain Ave., plans 3 story, 50 x 90 ft. factory, brick, plain foundation, Railroad Sq. $50,000. Engineer and architect not selected.

N. Y., Carthage—Adirondack Mineral Co., Inc., plans 1 story, 50 x 100 ft., brick, concrete and steel factory. $40,000. C. R. Outterson, pres.

N. Y., Elmira—Elmira Fdry Co., Main St. and Woodlawn Ave., plans 1 story, 116 x 220 ft., brick and steel foundry. $150,000. J. McCann, mgr.

N. Y., Jamestown—Jamestown Gas Stove Corp., Corry, Pa., plans factory, here. $50,000. Engineer and archietct not announced.

N. Y., Newburgh — Cornwall Chemical Co. plans to rebuild plant. $100,000. Engineer and architect not announced.

N. Y., Tonawanda—Spaulding & Sons Co., Wheeler St., plans brick, steel and concrete plant addition. To exceed $50,000.

Pa., Smethport—Smethport Garage Co. having plans prepared by S. T. Graham, 301 Jackson Ave., Bradford 2 story and basement, 54 x 120 ft. and 30 x 54 ft. brick and steel garage. $40,000.

W. Va., Mason City—Hutchison Coal Co. plans rebuilding power plant, recently destroyed by fire. $70,000.

N. C., Lexington—C. M. Wall & Son plan 150 x 200 ft. lumber plant, to replace one destroyed by fire.

N. C., Tryon—Blue Ridge Power Co., Hendersonville, plans power plant, here. $875,000.

Fla., Sulphur Springs (Tampa P. O.)—Consumers Ice Co., Polk and Marion Sts., Tampa, having plans prepared 30 ton ice factory, here. $65,000. C. Perry, mgr.

Ala., Alexander City—Avandale Mills Co. plans 4 story, 200 x 300 ft. plant, brick, also 75 cottages for workmen and $60,000 church. $1,000,000. Private plans.

Tenn., Nashville — Sunday School Bd. National Baptist Convention, had plans prepared and soon takes bids 82 x 150 ft. publishing plant, brick, concrete and stone, 4th and Cedar Sts. $300,000. M. McKissack, Cedar St., designing archt. Marr & Holman, Stahlman Bldg., consult. archts.

Ky., Louisville—A. Barth Lumber Co., 10th and Water Sts., plans 2 story, 90 x 150 ft. brick addition to lumber plant, 10th and Water Sts. Engineer and architect not selected.

Ky., Louisville—Louisville Gas & Electric Co., 317 West Chestnut St., having plans prepared by H. M. Byllesby & Co., 208 South La Salle St., Chicago, addition to steam power plant on river front, River Rd. $150,000. L. F. Strang, c/o owner, engr.

Ky., Louisville—Southern Chemical Co., 833 15th St., plans 2 story, 160 x 171 ft. warehouse, 15th and Breckenridge Sts. G. T. Love, pres. Engineer and architect not selected.

O., Canton—Schory & Shellhase Ice Co., 6th St., plans 130 ton plant addition. $50,000.

Industrial Works (Continued)

O., Cleveland—Amer. Tube & Pipe Bending Co., c/o S. Firestone, pres., 880 East 72nd St., plans 1 story, 100 x 120 ft., brick and steel factory, Berea Rd. $50,000. Private plans.

O., Celveland — Mechanical Rubber Co., Lisbon Rd., having preliminary plans prepared by Lockwood, Green & Co., Hanna Bldg., 8 story, brick, steel and concrete factory addition. $300,000.

O., Norwood (Cincinnati, P. O.)—Kemper-Thomas Co., Park Ave., having revised plans prepared by S. Hannaford & Sons, 1024 Dixie Terminal Bldg., Cincinnati, 2 story, 60 x 240 ft., rein.-con. factory, plain foundation. $150,000. Former bids rejected. Noted Apr. 12.

Ind., South Bend—Studebaker Corp., Main and Bronson Sts., had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, Mich., 1 story and mezzanine, 660 x 683 ft. foundry, rein.-con. and brick, plain foundation, Prairie Ave.

Mich., Iron Mountain — Michigan Iron Land & Lumber Co. having plans prepared by Mead & Seastone, engrs., Journal Bldg., Madison, Wis., rein.-con., brick and steel power plant, plain foundation. $1,000,000.

Ill., Chicago—N. Schoenbrod, c/o Rissman & Hirschfield, archts., 64 West Randolph St., plans 1 story, 50 x 177 ft., auto sales building and garage, rein.-con., brick and steel, 2520-24 South Michigan Ave. $65,000.

Wis., Madison—Gill Bros. Co., c/o A. J. Gill, 452 West Wilson St., having plans prepared by P. Dean, Dean Bldg., 2 story, 66 x 224 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $80,000. Address communications to architect.

Wis., Madison—J. Wiesse, 111 King St., having plans prepared by F. L. Kronenberg, Carroll Blk., 1 story, 50 x 100 ft., brick, rein.-con. and stone factory, plain foundation. $40,000. Noted Apr. 26.

Wis., Mason—Lange Canning Co., c/o C. J. Lange, Mill and Madison Sts., Eau Claire, plans 2 story, 50 x 75 ft., brick, rein.-con. and steel plant, plain foundation, here. $50,000.

Wis., Milwaukee—Milwauke Electric Ry. & Light Co., Public Service Bldg., 2 story, 100 x 210 ft. turbine and boiler house, brick and concrete, plain foundation, at Lakeside, to Meredith Bros. Co., 1043 Kinnickinnic Ave. $1,000,000 complete.

Wis., Sheboygan—E. A. Juul, archt., Security Bldg., preparing plans 4 story, 60 x 120 ft. garage and repair shop, brick, rein.-con. and steel, New York St. $60,000. Owner's name withheld.

Ia., Elkader—See "Dams."

Minn., Minneapolis—Minneapolis General Electric Co., 15 South 15th St., plans terminal station, brick and concrete, 1st and Aldrich Aves., N. $75,000. R. F. Pack, vice. pres. and general mgr. Private plans.

Kan., Wichita — Bemis Bag Co., 301 W.-K.-H. Bldg. plans 3 story,, 150 x 250 ft, factory, 2nd and Mosley Sts. $200,000. A. H. Imboden, mgr. Engineer and architect not selected

Mo., Kansas City—Benard & Buchli Motor Co., 4041 Bway., having plans prepared by E. C. Faris, 3908 Central St., 1 story and basement, 65 x 130 ft., rein.-con. and brick garage, Bway. and Schaefer St. $40,000.

Calif., Eureka—Eureka Ice & Cold Storage Co. plans ice and cold storage plant. To exceed $100,000.

Calif., Long Beach—W. H. Austin, archt., 1st Natl. Bank Bldg., preparing plans 3 story, 150 x 150 ft. rein.-con. garage. Owner's name withheld. Richards & Fry, represented by California Garage & Service Corp., lessee.

Calif., Los Angeles — Biltmore Garage Corp. having plans prepared by Stanton, Reed & Hibbard, Metropolitan Bldg., 8 story, 114 x 165 ft. garage, rein.-con., 4th and Olive Sts. $350,000.

Calif., Los Angeles—Continental Furniture Mfg. Co., 1636 Bryant St., San Francisco, having plans prepared by S. Heiman, 57 Post St., San Francisco, group rein.-con. factory buildings, 59th St. and Hanson Ave. $1,000,000.

Calif., Los Angeles—Los Angeles Warehouse Co., 316 Commercial St., had plans prepared by A. C. Martin, Higgins Bldg., 5 story, rein.-con. warehouse, San Pedro St. To exceed $80,000.

Calif., Los Angeles—Los Angeles Railway Co., Los Angeles Ry. Bldg., having plans prepared brick and steel shop, 54th St. To exceed $85,000. Private plans.

Calif., Los Angeles—R. T. Warner, c/o C. F. Skilling, archt., Bradbury Bldg., had plans prepared 1 story, 50 x 150 ft., brick garage, South Figueros St.

Calif., San Francisco — Reinhardt Lumber & Planing Mill Co., 17th and Kansas Sts., having plans prepared 50,000 sq.ft. lumber mill, incl. sash and door factory, dry kiln and lumber sheds, Jerrold Ave. and Napoleon St. To exceed $100,000. Private plans.

Calif., Santa Monica—Redmen Fireproof Storage Co. had plans prepared by R. Hutchinson, 924 Van Nuys Bldg., Los Angeles, 5 story, 53 x 100 ft. rein.-con. warehouse.

Ont., Brantford — Brandon Shoe Co., Brantford, plans to construct building destroyed by fire, incl. separate boiler house, 1 and 2 story, 60 x 160 ft. factory, etc. $75,000. Private plans.

Ont., Tillsonburg—Norfolk Shoe Co. having plans prepared by Watt & Blackwell, Bank of Toronto Bldg., London, brick factory. $50,000.

B. C., South Vancouver—Dominion Creosoting & Lumber Co., Ltd., North Arm of Fraser River, takes bids in about 3 weeks, saw mill. $200,000-$250,000. A. J. Lustig, Lewis Bldg., Portland, Ore., archt. and engr.

BIDS DESIRED

N. Y., Brooklyn—Rubel Coal & Ice Corp., Glenmore Ave., will build 50 x 150 ft. storage plant, rein.-con and brick, plain foundation, Lott and Rockaway Aves. $50,000. Work will be done by separate contracts under supervision of E. M. Adelsohn, archt. and engr., 1778 Pitkin Ave.

N. Y., Brooklyn—Eberhard Faber Pencil Co., 37 Greenpoint Ave., will build 6 story, brick, steel and concrete factory, plain foundation, $350,000. Work will be done by separate contracts under supervision of Ebling, Magnuson & Kleinert, archts. and engrs., 52 Vanderbilt Ave.

N. Y., Watertown—May 25, at office of J. W. Ackerman, city mgr., hydraulic electric plant. P. B. Sutton, city engr.; adv. this issue.

Pa., Johnstown — Trabold Motor Co., Swank Bldg., will build 1 story, 90 x 220 ft. concrete, brick and steel factory, Ferndale Ave. Work will be done by separate contract. Noted Mar. 29.

Pa., Pittsburgh—A. M. Bowman, engr., Bessemer Bldg., taking bids 4 story and basement, 60 x 103 ft. brick and steel factory, Western Ave., for Conroy-Prugh Co., 1414 Western Ave. $80,000.

Pa., Pittsburgh—R. M. Trimble, archt., Ferguson Bldg., taking bids 3 story and basement, 30 x 111 ft. machine shop, brick, Reedsdale St., for M. Hardsogg Co., 916 South Ave.

O., Cleveland—May 18, by A. Greenwald, Society for Savings Bldg., 1 story, 125 x 135 ft., brick and timber warehouse and garage, 1215 Central Ave. $50,000. N. Petti, Williamson Bldg., archt.

Mich., Detroit—F. Swirsky & Co., archts., 155 West Congress St., taking bids and opens same about May 20, 2 story and basement, 85 x 100 ft., brick and steel creamery, plain foundation, Cardoni Ave., for Homestead Creamery Co., c/o archts. $50,000.

Mich., Detroit — Bonnah & Chaffee, archts., 528 Farwell Bldg., taking bids and opens same about May 15, 1 and 2 story, 80 x 150 ft., 80 x 250 ft. and 50 x 150 ft. steel buildings, Fort Blvd., for Detroit Steel Co., 6189 Hamilton Ave.

Mich., Pontiac — A. Kahn, archt., 1000 Marquette Bldg., Detroit, taking bids and opens same about May 15, 1 story and basement, 70 ft. high, 85 x 113 ft. rein.-con., brick and steel power house, plain foundation, two 70 x 70 ft. tanks, Baldwin Ave., for Oakland Body Corp.

Ill., Chicago—Brenner, Monley & Merris, c/o Fox & Fox., archts., 38 South Dearborn St., receiving bids 1 story, 105 x 300 ft. factory, rein.-con., brick and steel, Kedzie Ave. and Drainage Canal. $300,000.

Ill., Chicago—See "Buildings."

Ill., Chicago—Jobson & Hubbard, archts., 225 North Michigan Ave., receiving bids 3 story, 100 x 117 ft. warehouse, fireproof, 5728-32 South Halsted St., for Goldstein Furnitdre Co., 4810 South Ashland Ave. $150,000.

Wis., Kiel—May 14, by W. F. Neumann, archt., 114 Grand Ave., Milwaukee, 1 story, 62 x 84 ft. machine shop, brick and timber, plain foundation, for Kiel Machine Co. $40,000.

Wis., Madison—M. P. Schneider, archt., 401 West Doty St., receiving bids 2 story, 99 x 127 ft., rein.-con., brick and steel garage, Bedford St., for Wiedenbeck-Doblein Co., 601 West Mifflin St. $40,000.

Wis., Madison—F. L. Kronenberg, archt., Carroll Blk., taking bids 2 story, 60 x 150 ft. garage, rein.-con. and brick, plain foundation, Washington St., for Capitol Garage Co. $80,000.

Wis., Park Falls—Flambeau Paper Co. taking bids 1 and 2 story, about 100 x 150 ft. machine and carpenter shops, etc., brick and concrete, plain foundations. $150,000. Brust & Philipp, 405 Bway. Bldg., Milwaukee, archts.

Wis., Sheboygan — Ebenreiter Lumber Co., 1215 Erie Ave., taking bids 1 story, 58 x 98 ft. woodworking factory, brick, rein.-con. and stone, plain foundation. $40,000. W. C. Weeks, 729 Ontario Ave., archt. Noted Apr. 26.

Calif., South San Francisco (San Francisco P. O.)—Metal & Thermit Corp., c/o Swift & Co., receiving bids rolling mill buildings, Swift Ave. $2,000,000. E. W. Kardos, dist. mgr. Private plans. Contract for steel let to Union Constr. Co., Balfour Bldg., San Francisco.

CONTRACT AWARDED

Conn., Hartford—L. G. Carroll, 24 Allyn St., 3 story, 30 x 90 ft garage, etc., brick and steel, plain foundation, 164 Trumbull St., to Lawrence & Coe Constr. Co., 272 Trumbull St. Archts. est. $50,000. Noted Apr. 26.

Conn., Hartford—T. J. Hurley, 164 Seymour St., 1 story, 60 x 140 ft. garage, brick and steel, plain foundation, 47 Park St., to F. Hendron, 24 May St. Archts. est $45,000.

Conn., Meriden—O. G. Ost, 42 Stone St., 2 story, 40 x 80 ft. garage, brick and steel, plain foundation, to H. Wales Lines Co., 134 State St. Archts. est. $50,000.

N. Y., Niagara Falls—Gazette Publishing Co., 310 Niagara St., 3 story, 33 x 132 ft. brick and stone plant, to Wright & Kremers, Gluck Bldg. Archts. est. $50,000.

N. J., Newark—Newark News, Market St., 82 x 165 ft., rein.-con., brick and steel plant, 215 Market St., to F. Kilkus, Inc., 13 South 6th St.

N. J., Trenton—Magnetic Pigment Co., 601 Cass St., 4 story, 45 x 65 ft., brick, steel and concrete plant addition, to N. A. K. Bugbee Co., 206 East Hanover St. $40,000.

Pa., Cresson—Link Motor Co., 2 story, part basement, 70 x 100 ft. rein.-con. and steel garage, Laurel Ave., to F. J. Cupples Lumber Co., Cresson, cost plus basis.

Pa., Lancaster—Bayuk Bros., 3rd and Spruce Sts., 3 story and basement, 67 x 182 ft. addition to factory, to H. Wohlsen, Woolworth Bldg., $150,000.

Pa., Pittsburgh — McKinney Mfg. Co., Penn and Preble Aves., 1 story, 120 x 182 ft. addition to storage house, Penn and Preble Aves., to H. Shenk Co., Century Bldg. Archts. est. $150,000. Noted Apr. 19.

Pa., Scranton—J. Notarinna and P. Battista, Wyoming Ave., 1 story, 80 x 150 ft. concrete, brick and steel garage, Wyoming Ave., to Stender Bros., Providence, Rd. and Albright Ave. Archts. est. $60,000.

Pa., Tyrone—West Virginia Pulp & Paper Co., 200 5th Ave., New York City, will build 2 story, 80 x 150 ft. rein.-con. and steel mill here, by day labor. Private plans.

Va., Richmond — Everett Waddey Co., 1105 E. Main St., 6 story factory, 35,000 ft. floor space. South 11th St., to J. T. Wilson Co., Inc., Main St., $150,000.

O., Cleveland—Arnold Creamery Co., 701 Woodland Ave., 3 story, 60 x 90 ft., brick and concrete factory addition, to S. W. Emerson Co., Union Bldg. Archts. est. $60,000. Noted Apr. 19.

Mich., Detroit—U. S. Radiator Corp., Campbell and Anthon Aves., 1 and 2 story, 27 and 40 ft. high, 50 x 250 ft. and 1 story, 40 x 60 ft. rein.-con., brick and steel foundry, plain foundation, Campbell Ave., to Austin Co., 1954 Penobscot Bldg., $105,000.

Mich., Detroit—L. Smith Paper Co., 2460 East Grand Blvd., 3 story, 40 x 150 ft. rein.-con. and brick warehouse, plain foundation, East Grand Blvd. and Duboise St., to W. N. Miller, 1303 Kresge Blvd.

Ill., Chicago—Armour & Co., Union Stock Yards, 4 story, 100 x 150 ft. slaughter house, rein-con., brick and steel, by day labor, $150,000. R. C. Clark c/o owner, archt.

Ill., Chicago—Baers Express and Storage Co., 1927 Milwaukee Ave., 5 story, 50 x 150 ft. warehouse, fireproof, 2229 Milwaukee Ave., to Schmidt Bros. Constr. Co., 22 East Huron St., $150,000. Noted Mar. 22.

Ill., Chicago—Coca Cola Co., Plum St., Atlanta, Ga., 5 story, 100 x 250 ft. fac-

Industrial Works (Continued)

tory, rein.-con., brick and steel, 4000-20 West Fillmore St., here, to E. P. Strandberg Co., 232 East Erie St. Archts. est. $250,000.

Ill., Chicago—La Salle Hotel Co., 10 North La Salle St., 6 story, 40 x 180 ft. garage, rein.-con., brick and steel, 209-11 West Washington St., to G. A. Fuller Co., 140 South Dearborn St. Archts. est. $200,000. Noted Apr. 5.

Wis., Delavan—W. H. McCommons, prop. of Overland Motor Co., will build 2 story, 50 x 90 ft. garage, by day labor. $40,000. Private plans.

Wis., Kenosha—Mantkus Motor Sales Co., 313 Park St., 1 story and basement, 64 x 124 ft. concrete and brick garage, plain foundation, to L. Klemm, 1127 Elizabeth St. Archts. est. $40,000.

Wis., Milwaukee—Shadbolt & Boyd Iron Co., 129 West Water St., 1 story, 125 x 250 ft., brick and timber warehouse, plain foundation, Wright St., to A. Buchholz & Son, 907 11th St. Archts. est. $50,000.

Wis., Oconto Falls—Falls Canning Co., 2 story, 50 x 84 ft. and 1 story, 30 x 32 ft. warehouse and boiler house, brick and timber, plain foundation, to H. J. Selmer Co., McCartney National Bank Bldg., Green Bay. Archts. est. $40,000. Noted Apr. 12.

Wis., Sheboygan—F. Hensel Co., Center and North 7th Sts., 3 story, 60 x 100 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, to Verhulst Co., 2220 Calumet Dr. Archts. est. $40,000. Noted Apr. 5.

Wis., South Milwaukee — Bucyrus Co., 100 x 106 ft., 60 x 65 ft., 40 x 41 ft. and 20 x 30 ft. foundry additions, 42 x 47 ft. shop, etc., all 1 story, brick and steel, plain foundations, to P. Riesens Sons, 1018 Humboldt Ave., Milwaukee. Noted Apr. 12.

Ia., Muscatine—Electric Light Trustees, complete electric light plant and system to Merkle Machy. and Contg. Co., 1733 Walnut St., Kansas City, Mo., $389,000. Noted Apr. 19.

Minn., Virginia—Enlarging central heating station and extending heating mains in 17 blocks, to Range Contg. Co., 412 1st National Bank Bldg., $66,975. Noted Mar. 29.

Tex., San Antonio—Frank-Strauss Co., 221 West Commerce St., 5 story, 80 x 190 ft., rein.-con. and brick factory, concrete pile foundation, South Flores St., to L. T. Wright & Co., City National Bank Bldg., $174,800.

Okla., Antlers—Oklahoma Power Co., Okmulgee, plans hydro-electric power plant on Kiamichi River, here. $500,000. C. H. Kretz, pres. Engineer not selected. Work will probably be done by day labor.

Utah, Salt Lake City—See "Buildings."

Calif., Los Angeles—Dohrmann Commercial Co., 436 South Rway., 5 story and basement, rein.-con. warehouse, Factory St. near Alameda St., to Clinton Constr. Co., 5th and Folsom Sts., San Francisco, $175,000.

Calif., Los Angeles—S. Selig & Co., 5 story and basement, rein.-con. warehouse, Alameda and Vernon Sts., to Macdonald & Kahn, Loew State Bldg., $350,000. Noted Dec. 21.

Calif., Oakland—Western Waxed Paper Co., Monadnock Bldg., San Francisco, 1 story, concrete factory, Doyle St., to Barrett & Hilp, 918 Harrison St., San Francisco, $60,000. Noted Apr. 26.

Calif., San Francisco—S. Schell, 180 Jessie St., will build 3 story, 75 x 100 ft., brick and steel warehouse, Natoma and 9th Sts., by day labor. $55,000.

Calif., San Francisco—Palm Olive Soap Co., 433 Brannan St., 2 story, rein.-con. warehouse, 2nd St. near South Park, to Macdonald & Kahn, 130 Montgomery St., $40,000.

Calif., San Francisco—Bass Heuter Paint Co., 816 Mission St., 4 story, concrete warehouse, 24th and Kansas Sts., to Barrett & Hilp, 918 Harrison St., $54,000. Noted May 3.

Buildings

PROPOSED WORK

Conn., Bristol—Armory—Connecticut National Guard, Broad St., Hartford, plans brick and steel, plain foundation, here. $200,000. L. B. Barbour, brigadier general.

Conn., Hartford—Apartment—I. Mana, 27 Kilbourne St., having plans prepared by J. E. Marchetti, 721 Main St., 2 and 3 story, 60 x 70 ft. and 60 x 90 ft. brick, plain foundation, Retreat Ave. $200,000.

Conn., Hartford—Office—Judd & Co., 750 Main St., having plans prepared by W. F. Brooks, Lewis and Gold Sts., 7 story, 70 x 82 ft., rein.-con., plain foundation, Pearl and Lewis Sts. $250,000. Noted Apr. 4.

Conn., Manchester—Armory—Connecticut National Guard, Broad St., Hartford, plans brick and steel, plain foundation, here. $175,000. L. B. Barbour, brigadier general. Engineer and architect not selected.

Conn., Mystic — Dormitory — Mystic Oral School for the Deaf, plans 3 story, brick, plain foundation. $265,000. W. J. Tucker, supt. Engineer and architect not selected.

Conn., New Haven — Apartment — F. Teitelman, 220 State St., having plans prepared by C. H. Abramowitz, 42 Church St., 4 story and basement, 110 x 155 ft., brick and steel, Congress Ave. $200,000.

Conn., New Haven—Armory—Connecticut National Guard, Broad St., Hartford, plans brick and steel, plain foundation, here. $500,000. L. B. Barbour, brigadier general. Engineer and architect not selected.

Conn., Rockville — Bank, etc. — Peoples Saving Bank, 5 Park St., plans 3 story, 70 x 120 ft., brick and stone, plain foundation, 5 Park St. $155,000. Engineer and architect not selected.

N. Y., Albany—Association—Y. M. C. A., 60 North Pearl St., plans new association building. $500,000 - $1,000,000. Engineer and architect not selected.

N. Y., Albany—Memorial—Fort Orange Post, Amer. Legion, plans 6 story memorial building. $300,000. T. B. Wheeler, Loudenville, Albany, commander. Engineer and architect not selected.

N. Y., Batavia—Theatre—L. H. Lempert & Son, archts., 347 Cutler Bldg., Rochester, preparing plans new theatre, East Main St. $150,000-$190,000. Owner's name withheld.

N. Y., Brooklyn — Bank — Peoples Trust Co., 885 Flatbush Ave., soon takes bids 5 story, brick, steel and stone, plain foundation, Flatbush and Church Aves. $250,000. Ludlow & Peabody, 101 Park Ave., New York, archts. H. G. Balcom, 10 East 47th St., New York, engr.

N. Y., Gouverneur—Office and Theatre—W. Gauthier, owner of Gauthier Theatre, plans 3 story, ornamental brick, steel and concrete. $175,000.

N. Y., Ilion—Schools—Defeated $395,000 bonds additions to high school and West Hill school. Noted May 3.

N. Y. New Rochelle—Theatre and Apartment—M. Geviner, c/o H. R. Burroughs, archt. and engr., 70 East 45th St., New York, having sketches made, brick, steel and stone, plain foundation, Division St., here. $500,000.

N. Y., New York—Hospital—Women's Hospital of Bronx, c/o Bloch & Hesse, archts. and engrs., 18 East 41st St., soon takes bids brick, steel and stone, plain foundation, Manida Ave. $200,000. Noted July 20.

N. Y., New York—School—Bd. Educ., 500 Park Ave., soon takes bids P. S. 73, 3 story, brick, steel and stone, plain foundation, West 166th St. and Woodycrest Ave. $425,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, arcnt. and engr.

N. Y., New York—Theatre—B. F. Keith, 1564 Bway., soon takes bids 110 x 160 ft., brick, steel and stone, plain foundation, Fordham Rd. $300,000. T. W. Lamb, 644 8th Ave., archt. and engr.

N. Y., Nunda—Schools—Plans election to vote on $150,000 bonds new school. Engineer and architect not selected.

N. Y., Prattsburg—School—Bd. Trustees Franklin Academy having plans prepared by I. E. Hill, 87 Seneca St., Geneva, 2 story, brick, steel and concrete. $150,000. Noted Mar. 15.

N. Y., Scotia—High School—Bd. Educ. Glenville Dist. 2, having plans prepared by J. M. Ryder, 16 Swan St., Schenectady, brick, steel and concrete. $270,000. Noted Mar. 22.

N. Y., Webster—School—Bd. Educ. plans 2 story, concrete, brick and steel. $150,000-$160,000. E. E. Smith, village pres.

N. J., Jersey City — Bank — Greenville Bank & Trust Co., Ocean Ave., having plans prepared by A. C. Bossom, archt. and engr., 680 5th Ave., New York City, 1 story, 60 x 105 ft., brick, steel and stone, plain foundation, Ocean and Lembeck Aves. $175,000.

N. J., Newark—School—Bd. Educ., City Hall, having plans prepared by Guilbert & Bettelle, archts. and engrs., 2 Lombardy St., 3 story, brick, steel and stone, plain foundation, Wilson Ave. $400,000.

N. J., Newark—School—Bd. Educ., Broad St., having plans prepared by Guilbert & Bettelle, 2 Lombardy St., 3 story, brick, steel and stone, plain foundation, Maple and Goldsmith Aves. $600,000.

N. J., Princeton—Hotel—Princeton Inn Co., c/o A. J. Thomas, archt. and engr., 15 East 47th St., New York City, soon takes bids brick, steel and stone, plain foundation, Alexander St., here. $350,000. Noted Dec. 7.

Pa., Cambridge Springs — School — Bd. Educ. plans brick additions. $150,000.

Pa., Clearfield—Hospital—Clearfield Hospital having plans prepared by Howard & Thatcher, Deposit Natl. Bank Bldg., Dubois, 2 story and basement, brick and steel addition. $250,000.

Pa., Dubois—Y.M.C.A., c/o W. Roundsley, having plans prepared by Howard & Thatcher, Deposit Natl. Bank Bldg., 1 and 3 story and basement, 50 x 90 ft. and 80 x 120 ft. brick and tile, Liberty Blvd. $150,000.

Pa., Ellwood City—Hotel—Chamber of Commerce plans modern hotel. $150,000. Engineer or architect not selected.

Pa., Luzerne — School — Sacred Heart Congregation having plans prepared by Schmitt & Schroader, Wilkes-Barre, 2 story, brick, to exceed $150,000.

Pa., Mechanicsburg—High School—Bd. Educ. having plans prepared by C. J. Lappley, Cotterel-Ebner Bldg., Harrisburg, 3 story and basement, 100 x 120 ft. rein.-con. and brick, South High St. Election in November to vote on $150,000 bonds.

Pa., Nanty-Glo—Hospital—Citizens Com., H. Carnahan, chn. and E. Carmel, secy., plan 3 story and basement, 100 x 110 ft., Roberts St. $150,000. Engineer and architect not selected.

Pa., Scranton—Theatre—M. E. Comerford, c/o Comerford Amusement Corp., 303 Lackawanna Ave., plans theatre, Wyoming Ave. To exceed $500,000.

Md., Baltimore—Apartment—C. R. Bealmear and S. R. Boyd, 12 East Lexington St., having plans prepared by C. N. and N. Friz, Lexington Bldg., 5 story, brick, plain foundation, University Parkway and 40th St. $250,000.

Md., Baltimore—Apartment—H. D. Bennett, 2114 Allendale Rd., soon lets contract 4½ story, 90 x 113 ft., brick, Bateman Ave. and Hilton St. $175,000. J. Freund, Jr., 1307 St. Paul St., archt.

Md., Baltimore — Apartment — J. I. Hebrank, Fidelity Bldg., plans 6 story, 50 x 150 ft., brick, plain foundation, Windsor Mill Rd. $200,000. C. H. Hebrank, Strathmore Ave., archt.

Md., Baltimore — Parsonage — St. Johns Evangelical Lutheran Church having plans prepared by O. G. Simonson, Inc., Maryland Casualty Tower, 2 story and basement, 55 x 160 ft., brick, plain foundation, Lombard and Catherine Sts. $150,000.

Md., Baltimore—School—Mayor and City Council having plans prepared by Smith & May, Calvert Bldg., 3 story and basement, 180 x 350 ft., with 1 story and basement, 65 x 160 ft. manual training department, brick and rein.-con., plain foundation, Hilton St. and Edmondson Ave. $650,000.

Md., Baltimore—Store—Excello Gas Illuminating Co., 312 North Eutaw St., had plans prepared by S. Russell, 11 East Lexington St., 4 story, 25 x 167 ft., brick, plain foundation, 411 North Howard St. $150,000.

Md., Catonsville — Church, etc. — Catonsville Methodist Episcopal Church, 4 Melvin Ave., plans 2 story, stone church, Sunday school and parsonage, Frederick Rd. and Melvin Ave. $200,000. W. M. Gleske, Gunther Bldg., Baltimore, archt.

Md., Salisbury — Hospital — Buckler & Fenhagen, archts., 325 North Charles St., Baltimore, soon let contract 2½ story, concrete and brick, plain foundation, here, for Pine Bluff Tuberculosis Sanitarium. $175,000.

D. C., Wash.—Opera House, Bank and Office—Washington Opera Co., c/o G. O. Totten, Jr., archt., 800 17th St., N. W., having plans prepared opera house, bank and office building, Dupont Circle. $1,000,000.

Fla., St. Petersburg — Apartment — Schooley-Murphy Co. having plans prepared by H. E. Wendell, St. Petersburg, 3 story, 50 x 200 ft., 4th Ave. N., between 3rd and 4th Sts. $150,000.

Fla., St. Petersburg—Hotel—E. M. Elliott and associates having plans prepared by G. L. Preacher, Healy Bldg., Atlanta, Ga., 800 room hotel, 5th Ave. N. and Beach Drive. $2,000,000.

Ala., Birmingham—Office—Southern Ry. Co., Amer. Trust Bldg., plans 10 story, 50 x 100 ft., rein.-con. and steel, I Ave. and 22nd St. N. $750,000.

Ala., Ensley — Chapel, etc. — Echols & Angwin, Ave. F, plans 2 story, 75 x 100 ft. chapel, morgues, offices, etc., brick and

Buildings (Continued)

stone. $150,000. Engineer and architect not selected.

Ala., Tuscaloosa—Schools—Election June 18, to vote on $500,000 bonds building high school, remodeling old buildings and other improvements.

Tenn., Nashville—Office—R. Caldwell, 214 Union St., having plans prepared by Marr & Holman, Stahlman Bldg., 10 story, 4th and Union Sts. $500,000.

Ky., Louisville — Hotel — Citizens Hotel Co., soon takes bids 18 story, 124 x 150 ft., brick and steel, 5th and Walnut Sts. $2,300,000. B. B. Davis, Norton Bldg., engr. and archt. Noted Mar. 29.

Ky., Louisville — Office — Avery Building Assn., 525 West Market St., plans 3 story, West Market St. $150,000. Engineer and architect not selected.

Ky., Louisville—Temple—Scottish Rite Assn., 438 6th St., having plans prepared by Nevin, Wischmeyer & Morgan, engrs. and archts., Starks Bldg., temple, 4th and Breckenridge Sts. $750,000.

O., Canton—Hotel—Pythian Castle Co. plans 7 story, brick and steel addition to Hotel Northern, 6th St. and Market Ave. N. $300,000.

O., Cleveland — Commercial — Phoenix Mortgage Co., c/o F. A. Foyle, 947 Chester Ave., plans 4 story, brick, steel and concrete, East 17th St. and Superior Ave. $150,000. Private plans. Noted Feb. 8.

O., Cleveland—Commercial—J. W. Wilson, 8314 Euclid Ave., having preliminary plans prepared by A. W. Harris, Discount Bldg., 3 story, brick, steel and concrete, 5205 Euclid Ave. $150,000.

O., Dayton—Bank and Office—Market Savings Bank, Wayne Ave., plans 4 story and basement, 86 x 135 ft., rein.-con. and brick, plain foundation, Wayne and Richard Aves. $150,000. Engineer and architest not selected.

O., Dayton—Club—Dayton City Club, 1st and Main Sts., having plans prepared by Schenck & Williams, Mutual Home Bldg., 4 story, 78 x 104 ft., brick, rein.-con. and stone, plain foundation. $600,000.

O., Mineral Ridge—Schools—Plans election to vote on $150,000 bonds for 12 room addition to high school and $50,000 bonds addition to Evansville St. school. Engineer and architect not announced.

O., Youngstown — Store and office — McCrory Stores Corp. plans 6 story, brick and steel, West Federal St. $1,000,000. C. F. Owsley, Mahoning Bank Bldg., archt.

Ind., Indianapolis—Memorial Shrine—State, City and Marion Co. plan war memorial, base 208 ft. square, 20 ft. high, supporting 96 x 96 ft. shrine, 170 ft. high. $2,000,000. Walker & Weeks, 1900 Euclid Ave., Cleveland, O., archts.

Mich., Adrian—High School—Bd. Educ. having preliminary plans prepared by B. C. Wetzel & Co., 2317 Dime Bank Bldg., Detroit, 2 story and basement, 90 x 300 ft., rein.-con., brick and steel, plain foundation. $450,000.

Mich., Battle Creek—Auditorium, Lyceum, etc.—F. Brigham, c/o L. Y. Post, Post Tavern, having plans prepared by A. B. Chanel, Post Bldg., 2 story and basement, 40 x 60 ft. rein.-con., brick and steel auditorium, lyceum, observatory and greenhouses on Country Club grounds. $500,000.

Mich., Detroit—Apartment—M. Satovsky & Son, 654 East Kirby Ave., having plans prepared by M. H. Finkel, 919 Majestic Bldg., 4 story and basement, 120 x 150 ft., brick and steel, plain foundation, Dumbarton Rd. $350,000.

Mich., Detroit—Clubhouse—Lakeside Park Club, 610 Farwell Bldg., having plans prepared by Beckett & Akitt, 73 Monroe Ave., 2 and 3 story, 60 x 200 ft., brick and steel, plain foundation, Lake St. $150,000.

Mich., Detroit—Schools—Bd. Educ. having plans prepared by Malcomson, Higginbotham & Palmer, 405 Moffatt Bldg., 13 rein.-con., brick and steel schools as follows: Morley School on Beaumont Ave., McMillan School on West End Ave., Brady School on Joy Rd., Custer School on Linwood Ave., Noble School on Fullerton Ave., Winterhalter School on Broad St., Roosevelt School on Grand River Ave., Western High School on Scotten Ave., Davison School on Davison Ave., Lawley School on Dequindre Ave., also Minden, Hazelridge and Foch Intermediate Schools on new sites. $4,382,217.

Mich., Highland Park (Detroit, P. O.)—Apartment—Balfour Manor Bldg. Corp., c/o C. N. Agree, archt., 1133 Book Bldg., Detroit, having plans prepared 3 story and basement, 151 x 241 ft. brick, steel and stone, plain foundation, Glendale Ave. $350,000.

Mich., Ironwood—Church—St. Ambrose Congregation soon takes bids 2 story, brick and tile, plain foundation. $150,000. J. Hollinger, pastor. E. Brielmaier & Sons Co., 432 Bway., Milwaukee, Wis., archts. Noted Apr. 5.

Ill., Chicago—Apartment—M. A. Bender, 7325 Fargo Ave., plans 3 story, 100x120 ft., rein.-con., brick and steel, 1421-29 Birchwood Ave. $200,000. M. L. Bein, 139 North Clark St., archt.

Ill., Chicago—Apartment—R. C. Harris, c/o Harris & Jillson, archts., 190 North State St., plans 3 story, 39 x 174 ft., rein.-con., brick and steel, 1226-28 Pratt Blvd. $150,000.

Ill., Chicago — Apartment — Holzman & Kout, c/o Rissman & Hirschfield, archts., 64 West Randolph St., plans 3 story, 100 x 125 ft., rein.-con., brick and steel, Monroe and St. Louis Sts., $150,000.

Ill., Chicago—Apartment—W. D. McJunkin c/o Kocher & Larson, archts., 6250 South Halsted St., plans 3 story, 80 x 150 ft., rein.-con., brick and steel, Wilson St. and Bway. $250,000.

Ill., Chicago—Hotel—H. Mack, c/o Lexington Hotel, 2135 Michigan Ave., plans 7 story and basement, 90 x 136 ft., rein.-con., brick and steel, North Clark St. and North Park Ave. $1,500,000. W. W. Ahlschlager, 65 East Huron St., archt.

Ill., Chicago—Hotel and Store—Abbott Investment Co., 179 West Washington St., plans 13 story and basement, 62 x 132 ft., rein.-con., brick and steel, 1533-45 North Dearborn St. $1,000,000. C. E. Frazier, 30 North Dearborn St., archt.

Wis., Fond du Lac—Hotel—Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee, having plans prepared by M. Tulligren & Sons Co., 425 East Water St., Milwaukee, 8 story and basement, 60x100 ft., brick, tile and concrete, plain foundation, (second unit), here. $300,000.

Wis., Milwaukee—Church—Sherman Blvd. Congregational Church, 728 46th St., having preliminary plans prepared by Buemming & Guth, 521 Jackson St., 2 story, brick and tile, plain foundation, Sherman Blvd. $150,000.

Wis., Milwaukee—Temple—Milwaukee Elks Lodge, 448 Jefferson St., rejected bids brick and concrete, plain foundation, Juneau Pl. $1,000,000. Will revise plans and readvertise. R. Messmer & Bro., 221 Grand Ave., archts. Noted Apr. 5.

Wis., Oconomowoc—School and Dormitory—A. C. Eschweiler, archt., 141 Wisconsin St., Milwaukee, takes bids about May 14, 3 story and basement, 2 wings each 42 x 126 ft., brick, tile and concrete, plain foundation, here, for Redemptionist Fathers. $300,000-$400,000.

Wis., Stevens Point—Courthouse—Portage Co. plans 3 story and basement, brick and concrete addition, plain foundation. $150,000. R. McCallum, co. clk. Engineer and architect not selected.

Ia., Boone—High School—Bd. Educ. having plans prepared by Dougher, Rich & Woodburn, 320 Valley National Bank Bldg., Des Moines, junior high school and repairs to grade schools. $225,000 bonds voted. Noted Mar. 22.

Ia., Sioux City — Hospital — St. Joseph Mercy Hospital having plans prepared by H. W. Pipp, Ann Arbor Savings Bank Bldg., Ann Arbor, Mich., 6 story and basement, rein.-con., brick and steel addition, 21st and Court Sts. $250,000. Noted May 3.

Ia., Winfield—School—Bd. Educ. having plans prepared by Dougher, Rich & Woodburn, 320 Valley National Bank Bldg., Des Moines, for school. $160,000. J. M. Lindley, secy.

Minn., Brainard—Hotel—J. W. Kopp and C. O'Brien having plans prepared by Fisher & Jackson, archts. and engrs., Bemidji, 5 story and basement, 50 x 140 ft., concrete and steel. $180,000.

Minn., Hopkins—School—Bd. Educ. having plans prepared by C. T. McElroy, 606 Jewelers Exch., Minneapolis, 2 story and basement, rein.-con., brick and tile. $200,000.

Minn., Slayton—School—Bd. Educ. plans 2 story and basement, rein.-con., brick and tile. $150,000. C. C. Peterson, clk. Engineer and architect not announced.

Kan., Iola—High School—Bd. Educ. having preliminary plans prepared by T. W. Williamson & Co., 312 Central National Bank Bldg., Topeka, 2 story and basement, 90 x 140 ft., rein.-con., brick and stone. Election soon to vote on $150,000 bonds.

Kan., Lawrence—Store and office, etc—R. E. Scamell, archt., 614 New England Bldg., Topeka, takes bids about July 29, 3 story and basement, 110 x 117 ft., rein.-con., brick and stone, for I. O. O. F. Lodge. $150,000.

Kan., St. Francis—Court House—Cheyenne Co. having preliminary plans prepared by T. W. Williamson & Co., 312 Central National Bank Bldg., Topeka, 4 story and basement, rein.-con. and brick. $150,000.

Kan., Topeka—Office—National Reserve Life Insurance Co., 811 Kansas Ave., having plans prepared by R. E. Scamell, 614 New England Bldg., 12 story and basement, 84 x 130 ft., rein-con., brick, steel and terra cotta.

Kan., Wellington — High School — Defeated $200,000 bond issue for 3 story and basement, rein.-con., brick and stone. T. W. Williamson & Co., 312 Central National Bank Bldg., Topeka, archts. Noted Mar. 15.

Mo., Excelsior Springs — High School — Plans election soon to vote on $200,000 bonds new Senior High School and addition to Lincoln Bldg. Engineer and architect not selected.

Mo., Kansas City — Hospital — Italian American Hospital Assn. had plans prepared by E. P. Madorie, 1105 Republic Bldg., 4 story and basement, 150 x 200 ft., rein.-con., brick and stone. $150,000.

Mo., St. Louis—Hotel—D. Israel, Southeast 18th and Chestnut Sts., plans to add 2 story to present 3 story Princess Hotel and construct 5 story rein.-con. and brick addition, concrete pile foundation, on adjoining half-block, Chestnut St. from 17th to 18th Sts. $500,000. Engineer and architect not selected.

Mo., St. Louis—Hotel—Milly Realty Co., c/o Princess Hotel, plans 12 story, 73 x 90 ft., rein.-con. brick and steel, concrete pile foundation, Market St. $750,000. Engineer and architect not selected.

Tex., Dallas—Sanatorium—North Texas Conference Methodist Episcopal Church South, 807 Mercantile Bank Bldg., having plans prepared by De Witt & Lemmon, 507 Southwest Life Bldg., and soon takes bids 6 story and basement (1st unit) rein.-con., brick and stone, Ballard and Grover Sts. $400,000. Total $1,500,000.

Tex., Denton — High School — Election soon to vote on $200,000 bonds for senior high school.

Tex., Ft. Worth—Y. M. C. A., 914 Monroe St., having plans prepared by Clarkson & Gaines, 601 First National Bank Bldg., 4 story and basement, rein.-con., brick and stone. Noted Dec. 21.

Tex—**Groesbeck**—Courthouse—Limestone Co. soon lets contract 3 story and basement, 104 x 168 ft., brick, steel and concrete. $400,000. Joor Eng. Co., 601 Slaughter Bldg., Dallas, engrs. Midwest Eng. Co., Amarillo, archts, and engrs. Noted Dec. 21.

Tex., San Antonio—Auditorium—City takes bids about June 15, 2 story, 110 x 140 ft., rein.-con., brick, steel and stone, Romana Sq. $500,000. R. H. Cameron, 1115 City National Bank Bldg., archt. W. E. Simpson Co., National Bank Commerce Bldg., engrs. Noted Nov. 25.

Tex., San Antonio—Medical Arts—R. H. Cameron, archt., 1115 City National Bank Bldg., takes bids within 60 days, 12 story, 90 x 100 ft., rein.-con., steel, terra cotta and stone, East Houston and Losoya Sts. $650,000. Owner's name withheld. W. E. Simpson Co., National Bank of Commerce Bldg., engr.

Okla., Oklahoma City—Schools—Plans 6 new buildings or additions to present ones. Bond issue of $1,900,000 voted over year ago declared legal by Supreme Court, Apr. 24. J. G. Stearly, clk. Bd. Educ. Layton, Smith & Forsythe, Southwest Natl. Bank Bldg., archts.

Calif., Easton—High School—Washington Union High School Dist., having plans prepared by Coates & Traver, Rowell Bldg., Fresno, group of buildings, incl. administrative, academic, commercial, arts and science groups, brick. $155,000. Noted Apr. 5.

Calif., Eureka — Auditorium — City will vote on $200,000 bonds for auditorium. A. W. Kildale, city clk.

Calif., Fillmore—High School—Fillmore Union High School Dist. to vote on $200,000 bonds for high school.

Calif., Hanford—Lodge, Club and Store—Hanford Lodge 1250 B.P.O.E., plans lodge, club and store on 100 x 150 ft. site, West 7th and Redington Sts. $150,000.

Calif., Hollywood — Church — Crescent Heights Methodist Episcopal Church, c/o H. L. Pearce, archt., Wright-Callendar Bldg., Los Angeles, having plans prepared church, frame and plaster. $175,000.

Calif., Long Beach—Hotel and Club—C. J. Harper, c/o Sea Gull Apartments, having plans prepared by H. L. Gogerty, 239 East Bway., 10 story and basement, concrete and steel, Ocean Blvd. and Locust St. To exceed $500,000.

Buildings (Continued)

Calif., Long Beach — Office — Interests represented by W. Horne Co., 38 American Ave., having plans prepared by Walker & Eisen, Pacific Finance Bldg., Los Angeles, 13 story, rein.-con., 3rd St. and American Ave. To exceed $500,000.

Calif., Long Beach—Office—R. D. Marshall, et al., 238 East 1st St., plan 5 story, probably rein.-con., Locust Ave. and 1st St. To exceed $250,000.

Calif., Los Angeles—Apartment—A. C. Blumenthal. Loew State Bldg., plans 8 story, rein.-con., 7th St. To exceed $250,000.

Calif., Los Angeles—Hotel—A. Mortimer, 818 Chapman Bldg., had plans prepared by L. A. Smith, 3rd St. and Western Ave., 5 story and basement, rein.-con., 2nd St. To exceed $200,000.

Calif., Los Angeles—Hotel—H. A. Stange, 1043 West 6th St., had plans prepared by H. W. Charlton, San Fernando Bldg., 4 story and basement, brick, West 6th St. $150,000.

Calif., Los Angeles — Office — Southern California Gas Co., 709 East 1st St., having plans prepared by Curlett & Beelman, Union Bank Bldg., 4 or 8 story, rein.-con. on 140 x 250 ft. site, Santa Fe and 7th Sts. To exceed $300,000.

Calif., Los Angeles—Theatre—Syndicate represented by J. M. Bowen, Van Nuys Bldgs., having plans prepared by G. A. Lansburgh, Junior Orpheum Bldg., rein.-con., Highland Ave. $200,000.

Calif., Los Angeles—Theatre and Store—West Coast Theatre Co., c/o Milwaukee Bldg. Co., archts., Wright-Callendar Bldg., having preliminary plans prepared theatre and store, fireproof, probably rein.-con., vicinity Vermont and Washington Sts. To exceed $500,000.

Calif., Oakland—Hospital—Oakland Hospital Assn., c/o M. I. Diggs, archt., 1901 Telegraph Ave., having plans prepared 8 story and basement, 131 x 175 ft., fireproof, northwest Telegraph and 31st St. $750,000.

Calif., Oakland — Hospital — Providence Hospital Assn., c/o R. A. Herold, archt., Forum Bldg., Sacramento, had sketches made 4 story, fireproof, Webster and Summit Sts. $500,000 or more.

Calif., Oakland — Office — Corporation headed by H. C. Hadden, Bank of Savings Bldg., having plans prepared by M. I. Diggs, 1901 Telegraph Ave., 5 story and basement, brick, vicinity of Telegraph Ave. and 31st St. $180,000.

Calif., Riverside—City Hall—Will vote on $150,000 bonds for city hall. L. Nafager, city engr.

Calif., San Bernardino—Hotel and Store—Platt Investment Co., plans 6 story, fireproof, E and 5th Sts. To exceed $150,000.

Calif., San Diego—Academy—Academy of Our Lady of Peace had plans prepared by J. C. Austin, Detwiler Bldg., Los Angeles, 2 story and basement, rein.-con. and steel. To exceed $150,000.

Calif., San Jose—Temple—C. Werner, archt., Humboldt Bank Bldg., San Francisco, takes bids in 3 months 4 story and basement, rein.-con., 3rd and James Sts., here, for San Jose Masonic Temple Assn. $250,000.

Calif., San Pedro—Club—Army & Navy Y.M.C.A., plans club, fireproof. To exceed $500,000.

Calif., Santa Ana—School—Voted $150,000 bonds for grammar school.

Calif., Taft—Store and Theatre—Valley Investment Co., c/o O. L. Clarke, archt., Brower Bldg., Bakersfield, had preliminary plans prepared, stores and theatre, brick, 4th and North Sts. $150,000.

Que., Sherbrooke — Hospital — Communante des Soeurs Grises, St. Vincent de Paul Hospital, plan addition. $600,000. J. W. Gregoire, 16 Wellington St. S., Montreal, archt.

Ont., Kitchener — Hospital — Watt & Blackwell, archts., Bank of Toronto Bldg., London, open bids about June 7, 3 story and basement, 150 x 185 ft. brick, King St., here, for Sisters of St. Joseph, Hamilton. $450,000.

Ont., London — Nurses' Home — Watt & Blackwell, archts., Bank of Toronto Bldg., open bids about May 31, 4 story and basement, 125 x 180 ft. brick, Grosvenor St., for Sisters of St. Joseph. $175,000.

Ont., Toronto—Clubhouse—St. Clair Recreation Club, 7 Boon Ave., plans 2 story, brick, Dufferin and St. Clair Sts. $200,000. B. Sykes, pres. Engineer or architect not selected.

Ont., Toronto — Clubhouse — Parkdale Canoe Club, Sunnyside Ave., plans 2 story, 150 x 200 ft., to replace one recently destroyed by fire. $150,000. Architect and engineer not selected.

Ont., Toronto—Office—General Building Corp., 366 Adelaide St. W., plans 14 story and basement, concrete, brick, steel and tile, King and York Sts. $1,000,000. Private plans.

Ont., Toronto—Office London Life Insurance Co., 72 Queen St. W., having plans prepared by Dowswell & Dolphin, 58 Wellington St., 7 story and basement, 52 x 180 ft. concrete, brick and steel, Bloor St. W. $250,000.

Ont., Toronto — Office — Manufacturers Life Insurance Co., Dominion Bank Bldg., plans 8 story, rein.-con. or steel, Bloor St. E. $1,500,000. Engineer or architect not selected.

Ont., Toronto—Parish Hall—Rogers Presbyterian Church, 29 East Lynn Ave., having plans prepared by J. N. Boulter, 307 Grace St., 2 story and basement, concrete, brick and steel. $230,000.

Ont., Toronto—Y. W. C. A., 21 McGill St., plans 3 story and basement, 100 x 130 ft. concrete, brick and steel, McGill St. $350,000. Architect not selected.

Ont., York Mills—College—St. Andrew's College, Rosedale Ave., having plans prepared by Sproatt & Rolph, 36 North St., Toronto, and takes bids in summer, 3 story, concrete, brick and steel. $400,000. Noted Apr. 19.

BIDS DESIRED

Me., Belfast—High School—May 19, by School Com., 3 story, 135 x 147 ft., rein.-con. and brick, plain foundation. To exceed $150,000. Kilham, Hopkins & Greely, 9 Park St., Boston, engrs. Noted Aug. 31.

N. Y., Brooklyn—School—May 15, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., addition to P. S. 99, East 9th St. between Ave. K and Ave. L. Noted May 3.

N. Y., Hamburg—High School—May 28, by Bd. Educ., rein.-con. and brick, Pleasant Ave. $350,000. F. A. Spangenberg, 250 Delaware Ave., Buffalo, archt. Noted Apr. 19.

N. Y., Huntington—School—May 12, by Bd. Educ., 68 x 150 ft., Woodbury Ave. $200,000. A. B. Sammis, Bank Bldg., archt.

N. Y., Lakewood—School—May 26, by Bd. Educ., 2 story, 60 x 168 ft., brick, $150,000. Johnson & Ford, Fenton Bldg., Jamestown, archts.

N. Y., Niagara Falls—Hotel—May 20, by Niagara Falls Hotel Corp., 11 story and basement, rein.-con., brick and steel, 1st and Jefferson Sts. $1,000,000. Kirkpatrick & Gannon, Gluck Bldg., archts. Noted Jan. 11.

N. J., Hightstown—School—May 15, by Bd. Educ., brick, steel and stone, plain foundation, Stockton St. $250,000. Guilbert & Bettelle, 2 Lombardy St., Newark, archts. and engrs.

Pa., Pittsburgh—School—May 17, by Bd. Educ., Fulton Bldg., constructing David B. Oliver School, 3 story and basement, 100 x 400 ft., Brighton Rd. $800,000. J. T. Steen & Son, Vandergrift Bldg., archts.

Pa., Phila. — Clubhouse — Phila. Rifle Club, 8th St. and Tabor Rd., taking bids 2 story and basement, 80 x 213 ft. brick, steel and stone, plain foundation. $300,000. C. P. Berger, 1512 Walnut St., archt.

Fla., Rockledge—Hotel—May 15, by H. R. Shares, secy. New Hotel Indian River Co., 4 story, 220 ft. front, metal lath and timber, on site of old Indian River Hotel. $200,000. R. D. Rummell, Rockledge, archt.

Fla., St. Petersburg—Office—May 15, by M. L. Elliott, archt., Citizens Bank Bldg., Tampa, 6 story, 50 x 100 ft., steel, 4th St., here, for E. M. Hall Development Co. $150,000.

O., Akron—Commercial—C. W. and G. L. Rapp, archts., State Lakes Theatre Bldg., Chicago, taking bids and open same about May 15, brick, steel and concrete, Main St., here, for B. F. Keith Theatre Co., Palace Theatre Bldg., New York City. $300,000. Noted Nov. 30.

O., Cleveland Heights (Warrensville, P.O.) —Church—J. H. MacDowell, archt., 510 Bulkley Bldg., Cleveland, taking bids and open same about May 15, 2 story, brick, steel and concrete, Fairmount Blvd., here, for Fairmount Blvd. Presbyterian Church, 13047 Cedar Rd., Cleveland. $150,000. J. B. Haydon, pastor. Noted Nov. 2.

Mich., Detroit—Apartment—J. A. Martin-Cooke, archt., 17732 Woodward Ave., taking bids 8 story and basement, 165 x 165 ft. brick and steel, plain foundation, Chene St. and Grand Blvd. Owner's name withheld.

Mich., Detroit — Clubhouse — Stratton & Snyder, archts., 1103 Union Trust Bldg., taking bids and opens same about May 15, 6 and 9 story, 90 x 120 ft. rein.-con., brick and steel, plain foundation, Park and Elizabeth Sts., for Womens City Club, 141 Bagley Ave. $500,000. Noted Mar. 1.

Ill., Chicago—Apartment—E. Forrester, 103 South Parkside Ave., receiving bids 3 story, 100 x 140 ft., fireproof, 238-46 North Parkside Ave. $175,000. W. C. Krieg, 105 North Clark St., archt.

Ill., Chicago—Apartment—D. M. Reid, 140 South Dearborn St., receiving bids 3 story, 130 x 135 ft., rein.-con., brick and steel, Kenneth St. and West End Ave. $350,000. R. F. France, 155 North Clark St., archt.

Ill., Chicago—Apartment-Hotel—Olsen & Urbain, archts., 155 North Clark St., receiving bids 3 story and basement, 100 x 150 ft., fireproof, 525-29 Arlington Pl., $750,000. Owner c/o F. D. Mateer, 420 Fullerton Ave.

Ill., Chicago—Store, Apartment and Office—A. M. Ruttenberg, archt., 64 West Randolph St., receiving bids 2 story, 65 x 287 ft., store, apartment, office and garage building, fireproof, Lincoln Ave. $200,000. Owner's name withheld.

Ill., Niles—(Chicago P. O.)—Dormitory—E. Brielmaier & Sons Co., archts., 432 Bway., Milwaukee, Wis., receiving bids 3 story and basement, brick, tile and concrete, here, for St. Hedwig's Industrial School. $300,000. Noted Nov. 2.

Wis., Fond du Lac—School—Stepnoski & Mehner, archts., Forest Ave., taking bids 2 story and basement, 138 x 140 ft., brick, tile and concrete, plain foundation, for St. Patricks Congregation, 19 East Follett St. $150,000. Noted Feb. 22.

Wis., Green Bay—May 15, by Foeller, Schober & Stephenson, archts., Nicollet Bldg., 2 story and baseemnt, 62 x 130 ft. plant, brick and concrete, plain foundation, for Green Bay Newspaper Co., 315 Cherry St. $150,000. Noted Apr. 5.

Wis., Madison—Church—F. L. Kronenberg, archt., Carroll Blk., taking bids 2 story and basement, 69 x 135 ft., rein.-con. and brick, plain foundation, St. James Court, for St. James Catholic Church, 1128 St. James Court. $150,000.

Wis., Manitowoc—Hotel—W. J. Roluber, archt., 8th and Joy Sts., taking bids 5 story, 50 x 85 ft., brick, rein.-con. and steel, plain foundation, for Manitou Hotel Co. $150,000. A. D. Dickson, prop.

Wis., Milwaukee—Store—May 14, by Brust & Philipp, archts., 405 Bway., 3 story, 150 x 202 ft. concrete and brick addition, plain foundation, Vliet Ave., for E. Schuster & Co., 12th and Vliet Sts. $400,000. Noted Jan. 25.

Wis., Verona—Asylum—May 25, by Dane Co., c/o M. Sommers, secy. Bldg. Com., 512 West Wilson St., Madison, 4 story and basement, 100 x 140 ft., brick and concrete, plain foundation. $150,000. A. D. Conover, Tenney Bldg., Madison, archt. Noted Feb. 1.

Minn., Minneapolis—Electrical—May 18, by State Bd. Control, St. Paul, 3 story and basement, rein.-con., brick and tile. State U. here. $300,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt. C. L. Pillsbury Co., 1200 2nd Ave. S., engrs. Noted Jan. 19, 1922.

Mo., Kansas City — Memorial — June 4, (change of date) by Liberty Memorial Assn., R. A. Long Bldg., rein.-con., brick and steel, Station Rd. $2,000,000. H. Van Buren Magonigle, 101 Park Ave., New York City, archt. and engr. Noted Mar. 22.

Tex., San Antonio—Church—Catholic Church taking bids 1 story and basement, rein.-con., brick and stone, concrete pile foundation, St. Marys and College Sts. $300,000. F. B. Gaenslen, 331 Bedell Bldg., archt. M. L. Diver, Calcasieu Bldg., engr. Noted Mar. 15.

Ore., Portland—Office—Aug. 1 by Houghtaling & Dougan, archts., Elks Bldg., 6 story, 100 x 200 ft., rein.-con., 10th and Taylor Sts., for Medical Society, Medical Bldg. $650,000. Noted Mar. 1.

Calif., El Centro—Court House—June 4, by Supervs. Imperial Co., courthouse, rein.-con. To exceed $150,000. D. W. Wells, et al., El Centro, archts. Noted Apr. 5.

Calif., San Francisco — Church — Fifth Church of Christ Scientist, receiving bids rein.-con. and steel, O'Farrell St. near Shannon Pl. $150,000. C. Werner, Santa Fe Bldg., archt. Noted Oct. 19.

Ont., London — Exhibition — May 14, by Watt & Blackwell, archts., Bank of Toronto Bldg., 2 story and basement, 185 x 350 ft. brick and steel, on fair grounds, for Western Fair Assn. $150,000. Prices wanted on materials.

Ont., Toronto—Office, etc.—May 18, by H. H. Couzens, mgr., Toronto Transportation Comn., 35 Yonge St., 2 story, brick office building and 1 story rein.-con. car barn. $750,000. Private plans.

Buildings (Continued)

BIDS RECEIVED

N. Y., Niagara Falls—City Hall—For 3 story and basement, brick, steel and stone, etc., Main St., general contract from Braas Bros., 1110 Whitney Ave., $381,391; heating and ventilating from E. H. Monin, 70 Delaware Ave., Buffalo, $34,193. Noted May 3.

Pa., Phila. — High School — Bd. Educ., 19th and Chestnut Sts., 3 story and basement, 148 x 180 ft. rein.-con., brick and steel, plain foundation, Anne and Tulip Sts., from Ketchum & McQuade, 1029 Brown Ave., $872,000. Noted Apr. 26.

Md., Baltimore—School—Mayor and City Council, 3 story and basement, 60 x 227 ft., rein.-con. and brick, plain foundation, Nevada and 1st Sts., from J. L. Robinson Constr. Co., 1130 West Lafayette Ave., $555,317. Noted Apr. 19.

Ia., Ames—High School—Bd. Educ., general contract for 1 school, and additions to Welch and Beardshear Schools, from R. C. Elvin & Co., Plymouth Bldg., Minneapolis, Minn., $150,600; heating, plumbing and ventilating, from E. Gates, Ames, $27,860. Noted Mar. 1.

Ore., Portland—School—Bd. Educ., general contract Gregory Heights School, 3 story and basement, rein.-con., pile foundation, from Stebinger Bros., 626 Bway., $128,124. Archts. est. $175,000.

Calif., Sacramento — Hospital — Sisters Hospital, c/o R. A. Herold, archt., Forum Bldg., 5 story and basement, rein.-con and terra cotta, 40th and J Sts., general contract from W. C. Keating, Capitol Natl. Bank Bldg. $398,800. Noted Apr. 19.

Calif., San Francisco—Apartment—A. G. Boggs, 1266 Washington St., 4 story and basement, concrete, Washington St. near Jones St., from Grace & Bernieri, Claus Spreckels Bldg., $150,000.

Calif., Yuba City—High School—Yuba City Union High School Dist., 2 story, hollow tile and brick, general contract from Holdener Constr. Co., 2310 J St., Sacramento, $132,966; heating from Booth & Herboth, 304-3rd St., Marysville, $30,100; mechanical equipment from Lattourette-Fical Co., 907 Front St., Sacramento, $64,-800. Noted Nov. 2.

CONTRACTS AWARDED

Conn., Bristol—Business—W. J. Tracy, 2 Riverside Ave., and J. E. Condon, 38 Laurel St., 3 story, 65 x 110 ft., Main St., to F. P. Helming, 60 Pleasant St. Archts. est. $150,000. Noted Apr. 19.

N. Y., Larchmont—Club—Bonnie Briar Country Club, brick and stone, plain foundation, to H. H. Vought & Co., Grand Central Terminal, New York City. Archts. est. $250,000.

N. Y., New York—Apartment—Mack & Goldstein, c/o Springsteen & Goldhammer, archts. and engrs., 31 Union Sq., will build 5 story, 100 x 100 ft., brick, steel and stone, plain foundation, Academy St., by day labor. $200,000.

N. Y., New York—Loft—E. Tribelhorn, c/o G. and E. Blum, archts. and engrs., 505 5th Ave., will build 10 story, 50 x 100 ft., brick, steel and stone, plain foundation, West 97th St., by day labor.

N. J., Trenton—Bank—Trenton Trust Co., State St. and Chancery Lane, 14 story, 62 x 189 ft., stone, steel and concrete, general contract to Karno-Smith Co., Broad St. Bank; structural iron, to N. A. K. Bugbee Co., 206 East Hanover St.; electrical work, to J. A. Morrissey, 342 West 46th St., New York City. Archts. est. $1,000,000. Noted Apr. 19.

Pa., Indiana — Church — Zion Lutheran Church, 2 story and basement, 110 x 115 ft, rein.-con., stone and steel, Church and 6th Sts., to Berkebile Bros., Swank Bldg., Johnstown, $175,000.

Pa., Mount Union—School—Bd. Educ., 3 story and basement, 110 x 133 ft., rein.-con., brick and steel, Market St., general contract to L. F. Swinter Contg. Co., Ebensburg, $127,000. Total est. $200,000.

Pa., Phila.—Bank—Phila. Savings Fund, 7th and Walnut Sts., 1 story and basement, 40 x 140 ft. brick, steel and stone, Broad and McKean Sts., to G. A. Fuller & Co., Morris Bldg., $350,000.

Pa., Phila.—Hotel—LeTrianon Hotel Co., 1520 Spruce St., 26 story, basement and sub-basement, 100 x 260 ft. rein.-con., brick and steel, to G. P. Pawling & Co., 1432 South Penn Sq., $7,000,000.

D. C., Wash.—Office—Sanitary Grocery Co., 52 O St., N. W., office building and warehouse, 4th and T Sts., N. E., excavation to W. F. Brenizer, 101 New York Ave.; general construction to C. H. Tompkins, 1612 Park Rd., Archts. est. $400,000.

N. C., Asheville—Hotel—G. Vanderbilt and Battery Park Hotel Companies, constructing hotel, brick, stone and steel, to W. M. Sutherland Bldg. and Contg. Co., Compton Bldg., St. Louis, Mo. Archts. est. $1,500,000. Noted Apr. 25.

Fla., Ft. Myers—Hotel—Franklin Hotel Co., 7 story and basement, 50 x 100 ft., rein.-con. and steel, on site of Franklin Arms Hotel, to Doullut & Williams Co., 811 Howard Ave., New Orleans, La., $200,000.

La., Baton Rouge—Administration—Bldg. Comn. Louisiana State University, two 1 story 50 x 100 ft. administration buildings, also Boyd Memorial Hall and Academic Law Bldg., both 2 story, 54 x 103 ft., to Caldwell Bros., 859 Carondelet St., New Orleans, $232,000. Noted Apr. 12.

Tenn., Jackson—Bank and Office—Peoples Bank, brick and concrete, to E. G. Holliday Constr. Co., 22 Noel Blk., Nashville, $185,000.

Tenn., Memphis—Office—Security Building Co. c/o McKim, Mead & White, archts., 101 Park Ave., New York City, 12 story, brick, steel and stone, Madison Ave., here, to E. W. Minter & Co., 115 Bway., New York City. Archts. est. $700,000.

O., Cleveland — Commercial — Euclid-Twenty-Ninth Co., c/o A. A. Chilcote, pres., 2140 Superior Ave., 2 story, 80 x 100 ft., brick, steel and concrete, 2902 Euclid Ave., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $150,000.

O., Cleveland—Commercial, Theatre and Apartment—Four Way Impvt. Co., c/o R. B. Thullen, mgr., National City Bldg., 4 story, brick, steel and concrete, Detroit Rd. and Blount St., to Central States Eng. & Constr. Co., 318 Euclid Bldg. Archts. est. $150,000.

O., Lakewood (Cleveland, P. O.)—Library—Lakewood Library Bd., c/o G. W. Grill, secy., 1470 Warren Rd., 2 story, 50 x 85 ft., brick, steel and concrete addition, 15425 Detroit Ave., to Schrader Constr. Co., 1643 East 40th St., Cleveland, $128,700. Noted Apr. 12.

O., Lima—High Schools—Bd. Educ., two 2 story and basement, 32 x 90 ft. wings, brick and concrete, to Franklin Junior High School, to Orr & Miller, Lima (street address not available), $118,550; 2 story and basement, 126 x 164 ft., brick and concrete addition to South High School, to O. Green, 325½ North Elizabeth St., $227,711. Noted Apr. 11.

O., Lorain — Clubhouse — Slovenian National Home Co., c/o W. L. Grills, 554 Bway., 3 story and basement, 60 x 110 ft., brick and steel, Pearl St., to A. Vle and Graupner Bros., East Erie St. Archts. est. $150,000. Noted Mar. 29.

O., Oxford—Dormitory—Miami University, 3 story, 80 x 250 ft., brick and concrete, to Woods Constr. & Supply Co., 427 Holland Bldg., Lima. $280,798. Noted Apr. 26.

Mich., Ann Arbor — Physical Science — University of Michigan will build 4 story and basement, 136 x 146 ft. rein.-con., brick and stone, plain foundation, East University Ave., by day labor under supervision of building superintendent, $500,000. A. Kahn, 1000 Marquette Bldg., Detroit, archt. Noted Mar. 15.

Mich., Detroit—Mercantile—Bedell Co., 19 West 34th St., New York City, 10 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, Woodward Ave., to Walbridge-Aldinger Co., 2356 Penobscot Bldg. Archts. est. $350,000.

Ill., Chicago—Apartment—A. F. Jacobs, 4833 North Avers Ave., 3 story, 120 x 177 ft., rein.-con., brick and steel, 5020-24 West Washington St., to L. Rubin, 2413 North Albany Ave. Archts. est. $150,000.

Ill., Chicago — Apartment and Store — Rissman & Hirschfield, archts., 64 West Randolph St., 3 story and basement, 107 x 125 ft., rein.-con., brick and steel, Cicero Ave. and Gladys St., to N. Flyer, 737 Independence Blvd. Archts. est. $180,000. Owner's name withheld.

Ill., Chicago—Apartment—J. P. Severin, 7701 South Union Ave., 3 story, 85 x 125 ft., rein.-con., brick and steel, 6753-9 Paxton Ave., to Turnquist Bros. Constr. Co., 217 East 69th Pl. Archts. est. $150,000.

Ill., Chicago — Club — Abbott Investment Co., 179 West Washington St., 13 story and basement, 49 x 149 ft., rein.-con., brick and steel, 1244 North Dearborn St., to Fitzgerald Constr. Co., 105 West Monroe St. Archts. est. $1,500,000.

Ill., Chicago — Hotel — A. Johnson, 331 Diversey Parkway, 12 story and basement, 100 x 150 ft., rein.-con., brick and steel, 7751-65 Pine Grove Ave., to J. A. Lundstrom, 1401 Balmoral Ave. Archts. est. $1,500,000. Noted Jan. 25.

Ill., Chicago — Hotel — V. G. Williams, 3257 Warren Ave., 3 story and basement, 125 x 170 ft., rein.-con., brick and steel, 3250-64 Park Ave., by day labor. $500,000. E. N. Brydges, 64 East Van Buren St., archt.

Ill., Chicago—Office—National Bond and Mortgage Co., 3146 Lincoln Ave., 4 story, 72 x 141 ft., rein.-con., brick and steel, 3309-23 Lincoln Ave., to A. Brundage, 110 South Dearborn St. Archts. est. $150,000.

Ill., Evanston—Apartment—W. H. Bell, two 3 story, 150 x 175 ft., rein.-con., brick and steel, Ridge and Hall Sts., to Whyte & Bell Constr. Co., 356 Ridge Ave. Archts. est. $600,000. Noted Mar. 22.

Wis., Green Bay — High School — School Bd., 2 story and basement, 120 x 400 ft., brick, tile and concrete, plain foundation, to Bartelson & Ness, Minot, N. D., $419,500. Noted Apr. 5.

Wis., Green Bay—Office—J. J. Bellin, Bellin Bldg., 80 x 100 ft., brick, concrete and steel addition, to Pinchard Bros., 605 St. George St. Archts. est. $150,000.

Wis., Manitowoc — Temple — Masonic Lodges, 2 story, 90 x 170 ft., brick, rein.-con. and steel, plain foundation, to G. Levenhagen, 1211 South 12th St. Archts. est. $150,000.

Wis., Milwaukee — Store-Office — Dorsen Realty Co., c/o M. Tullgren & Sons Co., archts., 425 East Water St., 3 story and basement, 100 x 100 ft., brick and concrete, plain foundation, 3rd St., to S. M. Siesel Co., 160 Ogden Ave. Archts. est. $200,000.

Ia., West Union—Court House—Fayette Co., general contract 3 story and basement, 90 x 116 ft., rein.-con. and stone, old public square, to Tapagher Constr. Co., Albert Lea, Minn., $141,800. Noted Apr. 12.

Minn., Minneapolis — Apartment—Young & Kennedy, 807 Andrus Bldg., two 3 story and basement, rein.-con., brick and tile, at 1368 and 1417 La Salle Ave., general contract to Madsen Constr. Co., 848 Builders Exchange. Total $300,000. Noted Apr. 26.

Utah, Salt Lake City — Office — N. O. Nelson Mfg. Co., 928 Chestnut St., St Louis, Mo., 5 story, office and warehouse, concrete, brick and steel, 3rd St. W and 2nd St. S., to J. J. Burke & Co., Kearns Bldg., $150,000.

Calif., Fresno—Store—F. B. Black, 1025 Van Ness Ave., 2 story, 101 x 150 ft., brick and concrete, Van Ness Ave., to R. F. Felchlin Co., Bank of Italy Bldg., $150,000. Noted Nov. 2.

Calif., Los Angeles—Apartment—P. M. Rutherford, 4 story and basement, 83 x 181 ft., brick, general contract to L. T. Mayo, 531 Black Bldg., $230,000.

Calif., Los Angeles—Hotel—E. B. Squires, 6 story, rein.-con., Coronado St., to Davies Constr. Co., I. W. Hellman Bldg., $175,000.

Calif., Sacramento — Store — E. Tropp and W. C. Crittenden, 129 Sutter St., San Francisco, 3 story and basement, rein.-con., K St., here, to Cahill Bros., 110 Sutter St., San Francisco, $700,000.

Calif., Santa Ana—High School—Santa Ana Junior High School Dist., 2 story, rein.-con., to Daniels & Farris, 818 North Holliston St., Pasadena, $161,275.

Ont., Toronto—Store—R. Simpson Co. Ltd., Yonge and Queen Sts., 6 and 8 story, 50 x 210 ft. concrete, brick, steel and stone addition, general contract to Jackson-Lewis Constr. Co. Ltd., Ryrie Bldg., structural steel to McGregor & McIntyre Ltd., 1139 Shaw St. Noted Mar. 29.

Federal Government Work

BIDS DESIRED

Me., Saco—Post Office—May 28 by Treas. Dept., Wash., D. C., for U. S. Post Office here. J. A. Wetmore, acting superv. archt.

N. H., Portsmouth—Remodeling—Spec. 4795—May 23 by Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling Marine Barracks, here. Noted Mar. 8.

N. Y., New York—Dike—June 11, at office U. S. Engineer, 616 Army Bldg., timber dike, north of Shooters Island, New York and New Jersey; adv. this issue.

Del., Wilmington—Dredging—June 5, at office U. S. Engineer, dredging in harbor, here; adv. this issue. Noted Feb. 8.

Va., Leesburg—Post Office—June 4 by Treas. Dept., Wash., D. C., for U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

N. C., Oteen—Roads and Walks—May 25 by Treas. Dept., Wash., D. C., roads and walks at U. S. Veterans Hospital, here. J. A. Wetmore, acting superv. archt.

La., New Orleans—Dredging—June 5, at office U. S. Engineer, 329 Custom House.

Federal Government Work (Continued)

dredging Calcasieu-Sabine Section, Intracoastal Waterway; adv. this issue.

La., New Orleans—Earthwork—May 15 at office U. S. Engineer, Custom House, 1,907,100 cu.yd. earth work in Atchafalaya and surrounding levee districts.

La., New Orleans—Jetty—June 1, at office U. S. Engineer, 329 Custom House.

Federal Government Work (Continued)

jetty construction at South Pass, Mississippi River; adv. this issue.

Montana—Gates—June 5 at office U. S. Recl. Serv., Denver, Colo., two 2 ft. 6 in. x 3 ft. 6 in. emergency gates for Hubbart Dam, Flathead Project, here. E. E. Weymouth, acting dir.

Mo., Kansas City — Extension — Treas. Dept., Wash., D. C., receiving bids on revised plans for Extensions 3, 2 wings, each 67 x 73 ft., cast stone, granite and rein.-con., complete incl. mechanical equipment, U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt. Noted May 3.

Mo., St. Louis—Earthwork—May 21 at office Mississippi River Comn., 1311 International Life Bldg., 645,000 cu.yd. hydraulic earthwork in Iowa River-Flint Creek Levee Dist. 16, Iowa.

Colo., Denver—Gates—June 6, at office U. S. Recl. Serv., Denver, metal spillway gates for Black Canyon Dam, Boise Project, Idaho, and Tieton Dam, Yakima Project, Wash. F. E. Weymouth, acting dir.; adv. this issue.

Washington—Roads—May 15 by C. H. Purcell, dist. engr., Bureau Pub. Rds., New Post Office Bldg., Portland, Ore., grading, surfacing, etc. 2.5 mi. Randle-Yakima, Randle Sect., National Forest Rd., Lewis Co., 9,700 cu.yd. rock and 15,700 cu.yd. common excav., 5,500 cu.yd. surfacing, etc., 14.7 mi. Mt. Baker Highway, Glacier Shuksan National Forest, Whatcom Co., 2,000 cu.yd. rock and 40,000 cu.yd. common excav., 14,500 cu.yd. surfacing, etc.

Oregon—Roads—May 15 by C. H. Purcell, dist. engr., Bureau Pub. Rds., New Post Office Bldg., Portland, constructing and improving 5.5 mi. Devils Lake Rd., Siletz National Forest, Lincoln Co., 20,000 cu.yd. rock and 138,000 cu.yd. common excav., etc.; 8.7 mi. Trail-Crater Lake Sect. 1, National Forest Rd., Jackson Co., 19,500 cu.yd. crushed rock, etc.

Calif., San Francisco—Dredging, etc.—June 1, at office U. S. Engineer, Custom House, 885,000 cu.yd. excav., 2,000 ft. retaining wall, incl. 22,000 tons stone.

BIDS RECEIVED

N. Y., Plattsburg—Monument—U. S. Engineer, Army Bldg., 39 Whitehall St., New York. MacDonough Memorial, here, from Harrison Granite Co., Inc., 200 5th Ave., New York. (1) monument complete $135,600 (2) new brick or concrete manhole $75, total $135,675. Noted Mar. 22.

N. C., Oteen — Boilers — Treas. Dept., Wash., D. C., removing 2 boilers, furnishing and installing new ones in U. S. Veterans Hospital, here, from Union Electric Co., 625 Poydras St., New Orleans, La., (1) $12,250 (2) $24,250. Noted Apr. 12.

Fla., Pensacola — Pump House, etc. — Spec. 4793—Bureau Yards & Docks, Navy Dept., Wash., D. C., pump house, timber trestle, equipment and piping at Naval Air Station, here, (1) work complete, from A. Pope, 4722 15th St., N. W., Wash., D. C., (1) $22,900 (2a) add $1 (2b) add $0.80. Noted Apr. 19.

Tenn., Nashville—Steel Gates—U. S. Engineer, Custom House, steel gates for Lock 8, Cumberland River, from Nashville Bridge Co., foot of Shelby St., $36,490. Noted Apr. 5.

Nevada—Road—C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., Mills Bldg., San Francisco, Calif., grading, surfacing, etc., 13.6 mi. Currant Creek Forest Rd., 36 mi. southwest Ely, Nye and White Pine Counties (1) contractor furnishing explosives (2) Government furnishing explosives, from Rieves & Cook, Ogden, Utah, (1) $71,988 (2) $71,229. Noted Apr. 12.

CONTRACTS AWARDED

N. J., Lake Denmark—Standpipe—Spec. 4759—Bureau Yards & Docks, Navy Dept., Wash., D. C., standpipe and piping at Naval Ammunition Depot, here, to Donald Zane Co., 233 Bway., New York City, $17,248 (160 days). Noted Apr. 19.

Ala., Florence—Boilers—U. S. Engineer, installing steam boilers, etc., on U. S. Towboat General John Coffee, to C. Hegewald Co., New Albany, Ind., $17,890. Noted Apr. 5.

Tenn., Memphis—Earthwork—Mississippi River Comn., 1st and 2nd Dists., Custom House, earthwork to Roach, Stansell, Lawrence Bros. & Co., North Memphis Savings Bank Bldg., Upper St. Francis Levee Dist. $101,800, Lower St. Francis Levee Dist. $365,299 and first 2 stations White River Levee Dist. $80,980; to Rodgers, Burt, Denison & Brown, Memphis, last station White River Levee Dist. $26,300; W. H. Denison, Cushman, Ark., Seelfoot Levee $63,550. Noted May 3.

H. T., Pearl Harbor—Dredging—Spec. 4798—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging Piers 3 and 4, and quay-wall at Naval Operating Base, here, to Hawaiian Dredging Co., 854 Kuhuhuana St., Honolulu, $0.70 per cu.yd., total $59,500 (120 days). Noted Mar. 22.

Miscellaneous

PROPOSED WORK

Grain Elevator — Farmington, Conn. — Winchell Smith Inc., plans grain elevator, $150,000. Address A. W. Hall, Garden St., Farmington.

Gas Holder—Geneva, N. Y.—Empire Gas & Electric Co., 103 Castle St., plans large gas holder, 100 ft. high, 96 ft. in diameter, 500,000 cu.ft. capacity. $150,000.

Ice Rink—Niagara Falls, N. Y.—Niagara Falls Arena Co., Inc., plans large ice rink, capacity 4,500 persons, incl. 60 ton ice plant, Victoria Ave. $150,000-$175,000.

Docks—North Tonawanda, N. Y.—Tonawanda Iron Wks., c/o Amer. Radiator Co., Elmwood Ave., Buffalo, plans docks along Niagara River. To exceed $50,000. A. A. Landon, pres.

Swimming Pool, etc.—Watervliet, N. Y.—Building Com. of Germain Memorial Presbyterian Church plans swimming pool and bowling alleys in Barclay Germain gymnasium. $30,000.

Pavilion, etc. — Sea Girt, N. J. — Boro Council, rejected bids May 1, pavilion, open air pool and bathing group, Ocean Ave. and Chicago Blvd. Will readvertise. Noted Apr. 19.

Golf Course — Stroudsburg, Pa. — Wolf Hollow Golf Club plans complete 9 hole golf course here. $25,000.

Pavilion—Detroit, Mich.—Michigan State Fair Assn., Bowles Bldg., having plans prepared by L. W. Fry, Ann Arbor, 2 story, 150 x 150 ft. concrete, brick and steel pavilion, plain foundation, on State Fair grounds. $150,000.

Stadium — Milwaukee, Wis. — Marquette Alumni Assn., c/o Marquette University, 15th St. and Grand Ave., plans rein.-con. stadium, Claybourn St. $250,000. W. J. Abel, secy. Engineer and architect not selected.

Elevators—Turner, Kan.—Armour Grain Co., 322 Glover Bldg., Kansas City, Mo., having plans prepared rein.-con. addition to plant here, to increase capacity from 150 to 300 cars per day. $600,000. Private plans.

Swimming Pool—Navastota, Tex.—See "Streets and Roads."

Car Barnes — Los Angeles, Calif. — Los Angeles Railway Co., Los Angeles Ry. Bldg., having plans prepared 300 x 500 ft. car barn, brick and steel, 54th St. near South Park Ave. To exceed $300,000. Private plans.

Tunnel, etc. — Santa Barbara, Calif. — Montecito County Water Dist., having plans prepared 6,000 ft. tunnel, 7 x 8 ft. wide, dam 135 ft. high, 300 ft. long on top, 50 ft. long on bottom, concrete construction. To exceed $500,000. C. Wyant, 29 San Ysidro Rd., engr. Noted Mar. 22 under Waterworks.

Wharf — Haileybury, Ont. — Dept. Pub. Wks., Ottawa, plans to rebuild wharf destroyed by fire last year.. $26,400. K. M. Cameron, acting ch. engr.

Revetment Wall and Dock — Hamilton, Ont.—City Council and Harbor Bd. plan revetment wall and dock at foot of Ottawa St., concrete and earth fill with 2,000 ft. boat slip. $400,000. W. F. McFaul, city engr. W. Ainslee, 47½ Main St. E., chn. Harbor Bd.

Skating Arena—Niagara Falls, Ont.—Having plans prepared 1 story, concrete, brick and steel ice skating and hockey arena. $150,000. James, Proctor & Refern, 36 Toronto St., Toronto, engrs.

Wharf—Sturgeon Falls, Ont.—Dept. Pub. Wks., Ottawa, plans new wharf, here. $30,000. K. M. Cameron, acting ch. engr.

Arena — Toronto, Ont. — Ravina Ice Arena, Jennings St. and Rowland Ave., plans 1 story, concrete, brick and steel. $150,000. Engineer and architect not selected.

BIDS DESIRED

Power Development—Watertown, N. Y.—May 25, by J. W. Ackerman, city mgr. and P. B. Sutton, city engr., power development at Delano Island. $400,000. Former bids rejected. Noted Mar. 22.

Retaining Walls—Freehold, N. J.—May 16, by Bd. Freeholders Monmouth Co., rein.-con. retaining walls at Bridge W-43 between Avon and Belmar. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. this issue.

Poles, etc.—Cleveland, O.—May 18, 300 cedar poles and 500 No. 2 manhole rings and covers. To exceed $25,000.

Roof Covering—Milwaukee, Wis.—Clas, Shepherds & Clas, archts., 445 Milwaukee St., taking bids 600 squares new roof covering of copper composition or galvanized steel; structural steel, gypsum covering over steel, etc., for Auditorium Bd., 5th and Cedar Sts. $50,000.

Ornamental Lighting System—Waukesha, Wis.—Bd. Pub. Wks. taking bids extending ornamental lighting system on Bway., Madison, Grand, Main, Clinton and South Sts. $25,000. A. P. Kuranz, city engr.

Sheep Barn—Des Moines, Ia.—May 16, by Keffer & Jones, archts., 204 Masonic Temple Bldg., 2 story and basement, 14 x 250 ft., rein.-con., brick and steel, for State.

Wharf—Blind River, Ont.—May 22, at office R. C. Desrochers, secy. Dept. Pub. Wks., Ottawa, reconstructing superstructure of timber pilework wharf here.

Car Barns—Toronto, Ont.—See "Buildings."

BIDS RECEIVED

Road Oil — Buffalo, N. Y. — Furnishing road oil for year 1923, (1) f.o.b. Buffalo, full tank, car lots (2) f.o.b. Buffalo, barrels, carload lots (3) f.o.b. Buffalo, barrels, less carlots, from Standard Oil Co. of New York, Star Oil Wks., 520 Fidelity Bldg., No. 4 road oil (1) $0.0725 per gal. (2) $0.11 (3) $0.14, non asphaltic road oil (1) $0.0685 (2) $0.1185 (3) $0.145; Atlantic Refining Co., 1211 Chestnut St., Phila., (1) $0.071; Texas Co., 17 Battery Pl., New York City, Texaco No. 45 (1) $0.0708 (2) $0.1191, Texaco No. 55 (1) $0.0698 (2) $0.1181; Barrett Co., 17 Battery Pl., New York, Tarvia B (1) $0.1025 (2) $0.161 (3) $0.201.

Structural Steel—New York, N. Y.—Bd. Purch., Municipal Bldg., May 2, structural steel to Dept. Plant & Structures, from P. J. Constant, Inc., 280 Bway., $7,860.

Heating and Ventilating Work—Niagara Falls, N. Y.—See "Buildings."

Tunnel—Seattle, Wash.—City opened bids Apr. 27, constructing tunnel under Duwamish Waterway, 1st Ave. S., from R. L. Sparger, Colman Bldg., sinking 137.5 ft. shaft $200, driving 400 ft. tunnel, $108, 400 cu.yd. shaft lining $30, lining 500 cu. yd. tunnel $35, total $107,582. Noted Apr. 19.

Steel Pipe — Montreal, Que. — Supplying 1,500 ft. 48 in. riveted steel pipe, from Horton Steel Wks., Ltd., St. James St., $23.20 per ft.

CONTRACTS AWARDED

Granite Paving Blocks — Minneapolis, Minn. — For 9,000 sq.yd. granite paving blocks, to Wisconsin Granite Co., 1013 Chamber of Commerce Bldg., Chicago, $3.10 per sq.yd. Noted Apr. 26.

Heating Mains — Virginia, Minn. — See "Industrial Works."

Crushed Rock, etc.—St. Louis, Mo.—For 500 squares crushed rock, to Independent Quarry & Constr. Co., Title Guaranty Bldg., $7.43 per sq.; 1,000 tons gravel f.o.b. cars and 250 tons delivered, to Missouri-Portland Cement Co., Post Dispatch Bldg., $1.50 and $1.80 per ton respectively. Engrs. est. $5,665.

Electric Standards—St. Louis, Mo.—Bd. Pub. Serv., City Hall, will install 500 concrete electric light standards, by day labor, $15,000. Former bids rejected. Noted Mar. 22.

Oil Tank — Portland, Ore. — Pub. Dock Comn., Spalding Bldg., one 5,000 bbl. steel oil tank, to King Bros. Boiler Wks., 314 Spalding Bldg., $6,650.

Stadium—Berkeley, Calif.—University of California, completion of stadium, to Clinton Constr. Co., 923 Folsom St., San Francisco, $511,740. Noted May 3.

Car Barns — Kitchener, Ont. — City car barns for street railway system, general contract to Ball Bros., Kitchener, $40,765; steel contract to Hamilton Bridge Co. Ltd., General Accident Bldg., Toronto, $12,755.

Telephone Cable Work—Toronto, Ont.—Bell Telephone Co., 76 Adelaide St. W., will erect telephone cable in Memorial School Dist., by day labor. $95,000. F. Kennedy, mgr.

Grain Elevator — Winnipeg, Man. — N. Bawlf Terminal Elevator Co., Grain Exch. Bldg., rein.-con. grain elevator, 1,500,000 bu., to Carter-Halls & Aldinger, Union Bank Bldg., $750,000.

Power Line—North Vancouver, B. C.—British Columbia Electric Ry. Co., 425 Carroll St., Vancouver, clearing right of way for 23 mi. power line, to Rolston & Montizambert, 9040 Standard Bank Bldg., Vancouver, $38,000. Power line and poles, etc., will be done by day labor. Total est. $150,000.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: May 15.

Highway Work

Baltimore, Md.

Sealed proposals for building 10 sections of State Highway, as follows:

Garrett Co. Cont. G-25: One section of State Highway between Gortner and Red House for a distance of 2.0 miles. (Concrete.)

Washington Co. Cont. W-25: One section of State Highway between Hagerstown and Leitersburg, a distanc of 5.3 miles. (Mac. Recon.)

Montgomery Co. Cont. M-41: One section of State Highway from Clarksburg toward Hyattstown for a distance of a 1.0 mile. (Concrete.)

Montgomery Co. Cont. M-37: One section of State Highway from Dawsonville toward Seneca for a distance of 1.0 mile. (Concrete.)

Montgomery Co. Cont. M-25-A: One section of State Highway along the Rockville Pike from the Dist. Line to Bethesda, a distance of 3.0 miles. (Concrete Shoulders.)

Howard Co. Cont. Ho-33: One section of State Highway from West Friendship toward Ivory for a distance of 1.4 miles. (Concrete.)

Anne Arundel Co. Cont. AA-32: One section of State Highway between the Defense Highway and Iglehart, a distance of 1.0 mile. (Concrete.)

Kent Co. Cont. K-22: One section of State Highway from Chestertown toward Pomona for a distance of 2.0 miles. (Concrete.)

Cecil Co. Cont. Ce-44: One section of State Highway through Port Deposit for a distance of 1.4 miles. (Concrete.)

Cecil Co. Cont. Ce-46: One section of State Highway along the Glascow Road from Elkton to the Delaware Line, a distance of 2.0 miles. (Concrete.)

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 15th day of May, 1923, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of five hundred ($500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 26th day of April, 1923.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids: May 15.

Road Construction

South Kingstown, R. I.

Sealed proposals for the construction of about 7,500 sq.yd. of bituminous macadam road at Wakefield, in the Town of South Kingstown, will be received up to 4 p.m., day-light time, at the office of Grafton I. Kenyon, Wakefield, R. I., on Tuesday, May 15, 1923. Blank forms for the bids, plans, specifications, etc., may be seen at the office of T. G. Hazard, Jr., Engineer, Narragansett Pier, R. I., on and after May 8. The right to reject any or all bids is reserved.

GRAFTON I. KENYON,
JOHN B. ELDRED,
ERNEST W. MAINE,
Committee for Town of South Kingstown.

OFFICIAL PROPOSALS

Bids: May 25.

C. I. Pipe and Special Castings

CONTRACT 40, BALDWIN-FAIRMOUNT PROJECT.

Cleveland, Ohio.

Sealed proposals will be received at the office of the Commissioner of Purchases and Supplies, Room 219, City Hall, until 12:00 o'clock noon, official Cleveland time, Friday, May 25, 1923, for furnishing and delivering cast iron pipe and special castings for the Baldwin-Fairmount project, Division of Water, and will be opened and read in the Council Chamber immediately thereafter.

Each bid must be accompanied by a certified check on a solvent bank for five thousand ($5,000.00) dollars, drawn payable to the City of Cleveland, as surety for the acceptance of the contract.

Each bid must be made in accordance with the plans and specifications which may be obtained at the Division of Water drafting room, 213 City Hall, Cleveland, Ohio.

No proposal will be entertained unless made on the blank forms furnished by the Division of Water, and delivered at the office of the Commissioner of Purchases and Supplies previous to 12 o'clock noon on the day above specified.

The city reserves the right to reject any or all bids.

This contract contains 750 tons of 48-inch Class E, B. & S. pipe; 520 tons of B. & S. pipe, Classes B & C, 24-inch to 60-inch; 75 tons B. & S. fittings, 16-inch to 48-inch; 330 tons of fittings, 16-inch to 48-inch, flanged at one or both ends.

A. V. RUGGLES,
Commissioner of Water.

Bids: May 16.

Highway Work

OFFICE OF STATE COMMISSION OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m., advanced standard time, which is 12 o'clock noon Eastern Standard Time on Wednesday, May 16, 1923, for the improvement of highways in the following counties:

Cayuga	(One highway: 3.28 miles)
Columbia	(One highway: 2.52 miles)
Jefferson	(One highway, 3.38 miles)
Montgomery	(One highway: 0.92 miles)
Warren	(One highway: 3.94 miles)
Wayne	(One highway: 4.90 miles)

Also for the reconstruction of the following:

Jefferson	(One contract: 2.95 miles)
Oneida	(One contract: 1.44 miles)
Schuyler	(One contract: 1.35 miles)
St. Lawrence	(One contract: 3.83 miles)
Sullivan	(One contract: 4.82 miles)
Ulster	(One contract: 3.14 miles)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the roads are to be improved or reconstructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

FREDERICK STUART GREENE,
Commissioner.
W. A. PATTON, Secretary.

OFFICIAL PROPOSALS

Bids: May 18.

Street Improvements

Roselle Park, N. J.

Sealed proposals will be received by the Mayor and Council of the Borough of Roselle Park, Union County, N. J., at 8:30 p.m. (Daylight Saving Time), on Friday, May 18, 1923, at the Borough Hall in said borough, for the improvement of the following named streets in said borough with reinforced concrete paving and bluestone curbing: Clay Avenue from Walnut Street to Sheridan Avenue, Sheridan Avenue from Grant Avenue to Clay Avenue, Walnut Street from Westfield Avenue to Grant Avenue.

The estimated amount of surface pavement required is 12,420 square yards; curbing, 6,730 lineal feet.

Drawings, specifications and forms of proposal for the above work prepared by the Borough Engineer are on file in the office of the said engineer, No. 505 Chestnut Street, Roselle Park, N. J., and No. 52 Vanderbilt Avenue, New York City, and may there be inspected by prospective bidders. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the engineer on proper notice and payment of the sum of $5.00.

Bids must be made on the standard proposal forms in the manner required by the specifications; must be enclosed in sealed envelopes bearing the name and address of the bidder on the outside, addressed to the Mayor and Council, Borough of Roselle Park, Union County, N. J., and must be accompanied by a certificate of a surety company guaranteeing the furnishing of a bond on the work, and also accompanied by a certified check for not less than 5 per cent of the total bid, and be delivered at the place and on the hour above named.

The Council reserves the right to reject any or all bids, to waive any or all defects or informalities, or to accept any bid as they deem for the best interests of the borough.

By order of the Mayor and Council of the Borough of Roselle Park, N. J.

J. WALLACE HIGGINS,
Borough Engineer.

April 27, 1923.

Bids: May 17.

Paving

Poughkeepsie, N. Y.

Sealed proposals will be received by the Board of Public Works until 4:00 p.m. May 17, 1923, at Eastman Park Mansion in the City of Poughkeepsie for the following approximate items:

38,000 square yards Asphalt Pavement on concrete foundation.
10,000 square yards Granite Block Pavement on concrete foundation.
100 square yards Brick Pavement adjusted.
3,000 lineal feet New Blue-stone Curb set in concrete.
10,000 lineal feet of Old Blue-stone Curb re-set in concrete.

A certified check for five (5) per cent of the amount of the bid must accompany each proposal.

Specifications may be examined at the office of the Board of Public Works or will be forwarded on receipt of five dollars, which amount will be refunded when the specifications are returned in good condition. The Board reserves the right to reject any or all bids.

By ORDER OF THE BOARD
OF PUBLIC WORKS
THOMAS F. LAWLOR, Superintendent.
April 28, 1923.